

















Report: R7008 DATE: 07/03/08 ONYX ENVIRONMENTAL SERVICES, LLC WASTE PROFILE SUMMARY

Version 06.04 TWI-032206

SELLING REGION LAB - MRL

BUSINESS: ZEXEL CARVEOUT AREA

DEPT ....

ADDRESS 1: 2121 S IMBODEN COURT

ADDRESS 2:

CITY/ST..: DECATUR

IL 62521

CONTACT..: RONALD W. ELDER

WASTE NAME: SOLIDIFIED SLUDGE

PROCESS GENERATING WASTE: SITE REMEDIATION

SHIP. NAME: HAZARDOUS WASTE, SOLID, N.O.S

ADDL. DESC: (TRICHLOROETHYLENE, TETRACHLOROETHENE, CIS-1,2-DICHLOROETHEN

NUMBER..... 143-8-669 PHONE..... 314/682-1540 EXPIRES..... 02/08/10 STATUS..... APPR FOR SERV FEDERAL EPA ID: ILRG00150359 STATE EPA ID..: 1150155433

EPA STATUS....: CHK RESTRICT

110000 UG/KG

360000 UG/KG

417000 UG/KG

115000 UG/KG

10 %

80 %

20 %

CL

UNIT DESCRIPTION

PPM

PPM

PPM

ppm, Regulated by 40 CFR 761:

TOTAL

TOTAL

SALES OFFICE..: TWI

CHEMICAL COMPOSITION

CIS-1,2-DICHLOROETHENE STYRENE

TETRACHLOROETHANE

TRICHLOROETHENE

METALS

Arsenic as As Cadmium as Cd

Mercury as Hg

Chromium Hex

Nickel as Ni Thallium as Tl

Selenium as Se

Lead as Pb

WATER SOIL

NON-TRI CHEMICALS

CORN COB ABSORBANT

EP TOX/TCLP

5.0

1.0

5.0

. 2

1.0

0 PHYSICAL CHARACTERISTICS

70

mg/l Physical State ...: Solid mg/1

mg/l

mg/1

mg/1

Flash Point ....: N/A pH..... 05.0 - 09.0

Color..... BROWN Odor..... NONE

Layers..... Single Layer

Specific Gravity.: 0.000

Free Liquids....: 0 -

Cyanides..... < Sulfides..... >

PCB's....: Phenolics..... <

DOT UN/NA NBR: NA3077

EXP:

NESHAP:

Material Class:

\* Taxable.... Treatment Codes..: T07

CRQ RPT QTY....: EPA Permit....:

Hazard Class....: 9

State Codes....: 090001

Benzene ....:

Packing Group....: III Process Codes...: BSH

Cert of Dstrct Rq:

Federal Codes: D039 D040

HANDLING

NEO. GREY GLOVES

SARANEX

TYPE C RESPIR CONST FLOW

INDEX/BLUE NITRILE (INNER GLOVE)

DOT PROPERTIES

Inhalation: 2 Dermal: 2 Oral: 2

Flammable: 0

Health: 0

SUMMARY

Waste Tyne B519 Form Code

1

anning Window Billing Help	Class   Sample Characteristics   Viscocity   Class   C	pH Sareen	spec. Gravity BTU/Ib	on PDW Flashpoint Chloride Frashpoint - Flashpoint - 73 F < 140 F N/A		AS   3.4 BE   0.1	CO   138	and the average nu CR   1193	HG 1.03			РВ [206
s Inventory Print Approvals Chemist Receiving Laboratory Tank Farm Process Planning Profile Approvals	Profile       Incomming Analysis Required         Number       Process Code(s)       D0T Hazard Class         032206       ▼       ▼         9	Retrieve	odsullausy	Cancet   Visual Inspection: Glove Box / Hooded Feeder   Inspect Outer Drum Only - Do Not Open - Comments Below   Pecerving: Verity Original Consumer Label and Write Label Info on PDW   Decart Sample Required   Sample Required   Sample Required   Sample Required   Sample Required   Pecervine Sample Required	F. Analytical Comments Reference Tracking # / Sample # for analysis:	Exit Dioxin Precursor analysis results below site action levels  No additional analysis required  Run on each load	Last Updated By:   PCB analysis to be determined upon visual inspection of waste	meredith Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average nu		Profile Review for Appendix WAP C Constituents by: KMEREDITH on [2/11/2008]  Water Reactive - avoid contact with mosture  Contains Cyanids - D0 N0T mix with pH < 6	Benzene NESHAP controls required	Poison Inhalation Hazard Tontains Acytonitrile Tontains Hydroflouric Acid

Sample Required

**TWI Laboratory Analysis Report** 

Receiver #: 329006

# of Drums: 1 Date: 7/17/2008

Profile #: 032206 Generator: ZEXEL CARVEOUT AREA

Descript: SOLIDIFIED SLUDGE

Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

						8	A8B		4/5	5	
Sample Number	284638	000231228VES									
Drum Rep / Comp	BULK/0										
Free Liquid (%)	0		0046			Profile		Conf	form	Date	Initials
Pumpable	NO		28463	38				Yes	No	07/17/08	LA.
Layers/Phases -% Ea.	100										
Color	brown - da	rk				111		XII	11		
Turbidity	N/A							X/L		3	
Viscosity	N/A					N/A			х		
Physical State	solid					111		XII	11		
Water Miscibility	Part Ploat	s Sinks				111		1//			
Add. Description	sludge			•							
Water Reactivity	No RXN			-		111		XII.	111		
Radiation Screen	=BKG					=BKG	<del></del>		х		
Flam. Pot. Screen	NEGATIVE					See F	ashpoint		х		
pH Screen	6 at 10 pc	ent				2-12.	5		х		
Oxidizer Screen	NEGATIVE			As	3.4	Hg	206	11	11	}	
Paint Filter Test	N/A			Be	0.1	К	1.03	11			
Cyanide Screen	NEGATIVE C	CYANTESMO		Cd	198	Na	0	11	11	3	
Sulfide Screen	POSITIVE			Cr	1193	Pb	0	11	11		
Incidental Odor	No			Asi	36,68	111	11111	11/	11	3	
Specific Gravity						0.000	- 0.000	11	11	01/01/00	
BTU/Lb	2340					2000	- 10000	11	//	07/17/08	MT
% Chloride	<0.5					1 -5	j ·	11	//	07/17/08	TO
Flash Point - Deg F			· · · · · · · · · · · · · · · · · · ·			N/A	1	11	11	01/01/00	
PCBs By GC - mg/kg						<50pp	m	1	Ì	07/17/08	
PCBs-Screen - ppm						<50pp	em			01/01/00	
2,4,5-T/Silvex - ppm	1				····	111		11/	///	01/01/00	
PCP Screen - ppm						111	11111	1/1/	77	01/01/00	
pH by Meter						111	77777	11	11	01/01/00	

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Consitituents by: KMEREDITH Date: 2/11/2008

Sample Required

Receiver #: 329047

# of Drums: 1 Date: 7/17/2008 Profile #: 032206

Generator: ZEXEL CARVEOUT AREA Descript: SOLIDIFIED SLUDGE

Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

					8A8B	4/	5	
Sample Number	284637 000231231VES							
Drum Rep / Comp	BULK/0							
Free Liquid (%)	0		<b>           </b> 		Profile	Conform	Date	Initials
Pumpable	Ю	2846	31		VIIIIII	Yes No	07/17/08	ΑJ
Layers/Phases -% Ea.	100					XIII		
Color	brown - dark							
Turbidity	N/A						}	
Viscosity	N/A				N/A	х		
Physical State	solid					VIII		
Water Miscibility	Part Floats Sinks					XIII		
Add. Description	mud-like		<u> </u>			****		
Water Reactivity	NO RXN				MIIIII	IIIX	1	
Radiation Screen	=BKG				=BKG	X	1	
Flam. Pot. Screen	NEGATIVE				See Flashpoint	х		
pH Screen	6 at 10 pcnt				2-12.5	x	1	
Oxidizer Screen	NEGATIVE		As	3.4	Hg 2060	1111	1	
Paint Filter Test	N/A		Be	0.1	K 1.03	1111	1	
Cyanide Screen	NEGATIVE CYANTESMO		Cd	198	Na 0	1111	1	
Sulfide Screen	POSITIVE		Cr	1193	Pb 0	1111	}	
Incidental Odor	No		Asi	4 36.68		XXXX		
Specific Gravity					0.000 - 0.000	1111	01/01/00	
BTU/Lb	2110				2000 - 10000	1111	07/17/08	MT -
% Chloride	<0.5				1 -5	1111	07/17/08	TD
Flash Point - Deg F					N/A	1111	01/01/00	
PCBs By GC - mg/kg					<50ppm		07/17/08	
PCBs-Screen - ppm					<50ppm		01/01/00	
2,4,5-T/Silvex - ppm	1					11/1/	01/01/00	
PCP Screen - ppm					1111111	1111	01/01/00	
pH by Meter	1			······································	1111111	X////	01/01/00	

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Constituents by: KMEREDITH

Sample Required

Receiver #: 329110

# of Drums: 1 Date: 7/17/2008 Profile #: 032206

Generator: ZEXEL CARVEOUT AREA

Descript: SOLIDIFIED SLUDGE Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

					8A8	3	4/5	<b>5</b>	
Sample Number	284642 000231230VES			1			<del>-</del>		
Drum Rep / Comp	BULK/0		HIN						
Free Liquid (%)	0			j	Profile	Con	form	Date	Initials
Pumpable	NO	28464	12			Yes	No	07/18/08	AJ
Layers/Phases -% Ea.	100				1111111	X	11		
Color	mılti				MAN	11/	11		
Turbidity	N/A				1111111	1//	17		
Viscosity	N/A				N/A		X		
Physical State	solid				MIIIII	1/1	///	•	
Water Miscibility	Part Floats Sinks			***************************************	1111111	1//	11		
Add. Description	dirt, plastic, ppe, clothing,	and tape				XXX	77,		
Water Reactivity	NO RXN					XI	111		
Radiation Screen	=BKG				=BKG	7	X		
Flam. Pot. Screen	вос				See Flashpoint	7	х		
pH Screen	6 at 10 pcnt				2-12.5	1	х		
Oxidizer Screen	NEGATIVE		As	3.4	Hg 206	1	///		
Paint Filter Test	N/A		Be	0.1	K 1.03	11	4		
Cyanide Screen	NEGATIVE		Cd	198	Na º	11	11		
Sulfide Screen	POSITIVE		Cr	1193	Pb 0	11	11		
Incidental Odor	No		A < ii	3618	MILLI	111	14	ļ ———	
Specific Gravity			Деп		0.000 - 0.000	11	14	01/01/00	
BTU/Lb	8710				2000 - 10000	17	4	07/18/08	MT
% Chloride	< 0.5		·····		1 - 5	11	4	07/18/08	TD
Flash Point - Deg F					N/A	11	4	01/01/00	
PCBs By GC - mg/kg					<50ppm	1	1	07/18/08	
PCBs-Screen - ppm					<50ppm	1		01/01/00	
2,4,5-T/Silvex - ppm	1				MILLIN	4/2	/17	01/01/00	
PCP Screen - ppm					1111111	11/	14	01/01/00	-
pH by Meter				·····	1111111	11/	//	01/01/00	<del> </del>

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Constituents by: KMEREDITH

Sample Required

replace 7 A

7

Receiver #: 329224

# of Drums: 1 Date: 7/17/2008 Profile #: 032206

Generator: ZEXEL CARVEOUT AREA Descript: SOLIDIFIED SLUDGE

Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

				8A 8B	4/5	
Sample Number	284643 000231232VES			<u> </u>		
Drum Rep / Comp	BULK/0				**************************************	
Free Liquid (%)	0		l	Profile	Conform Date Initia	als
Pumpable	NO	284643			Yes No 07/18/08 A	¥J
Layers/Phases -% Ea.	100					
Color	brown		· · · · · · · · · · · · · · · · · · ·	1111111		
Turbidity	N/A		·····			
Viscosity	N/A			N/A	x	····
Physical State	solid			11111111		
Water Miscibility	Part Floats Sinks			11111111		
Add. Description	mud-like	···		1777777777	*****	
Water Reactivity	NO RXN	**************************************		MIIIII		
Radiation Screen	=BKG			=BKG	x	
Flam. Pot. Screen	NEGATIVE			See Flashpoint	х	
pH Screen	7 at 10 pent			2-12.5	x	
Oxidizer Screen	NEGATIVE	As	3.4	Hg 206		
Paint Filter Test	N/A	Be	0.1	K 1.03		
Cyanide Screen	NEGATIVE	Cd	198	Na 0		
Sulfide Screen	POSITIVE	Cr	1193	Pb 0		
Incidental Odor	No	Asv	34.68			
Specific Gravity				0.000 - 0.000	01/01/00	
BTU/Lb	2110			2000 - 10000	07/18/08 R	RWH
% Chloride	< 0.5	***************************************		1 - 5	07/18/08 T	TD
Flash Point - Deg F				N/A	01/01/00	
PCBs By GC - mg/kg		**************************************		<50ppm	07/18/08	
PCBs-Screen - ppm			·····	<50ppm	01/01/00	
2,4,5-T/Silvex - ppm	1.				01/01/00	
PCP Screen - ppm				1111111	01/01/00	
pH by Meter				1111111	01/01/00	

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Constituents by: KMEREDITH

	Sample Characteristics  Viscocity  IP L M M H M MA  pH Screen  PH	AS 0  AS 0  CD 5  Stly oil, expe  K 0  NA 0
	Incoming Analysis Required  Process Code(s)  SF1 SIN SIN SIN Sequence  Lab: Rum metals as specified below.  Dioxin Precursor Analysis Required  Visual Inspection: Glove Box / Hooded Feeder  Inspect Butter Briginal Consumer Label and Write Label Into on PDW  Decart Sample Required  Sample Required	Analytical Comments   Analytical Comments   30-9466   Reference Tracking # / Sample # for analysis:   30-9466   Reference Tracking # / Sample # for analysis:   Dioxin Precursor analysis required   No additional analysis required   Analysis supplied by generator - See Tech. Manager File   Analysis supplied by generator - See Tech. Manager File   Analysis supplied by generator - See Tech. Manager File   Profile and Handling Comments   SF - CYANIDE SOLUTION, PH > 12.5. If drum is mostly oil, experience in Appendix WAP-C Constituents by:   CLF   On   77/2/2007
Profile Approvals	Profile  Number  S39242  Retrieve  For PCB Av  Clodele  Cancel  To Lab: Ri  To Lab: Ri  To Lab: Ri  To Matural II  To Sample	Exit    Analytical Comments   30-9466   R   30-9466   R     Dioxin Precursor analysis   No additional analysis   No additional analysis   No additional analysis   Public analysis to be defended by grant   Profile and Handling Comments   Additional Comments   Profile Beview for Appendix WAP-C Constituents   Water Reactive - avoid contact with moisture   Water Reactive - avoid contact with moisture   Profile Beview for Appendix WAP-C Constituents   Water Reactive - avoid contact with moisture   Profile Benzene NESHAP controls reference   Profile Benzene NESHAP   Profile Benzene NES

Report: R7008 DATE: 07/31/08

#### ONYX ENVIRONMENTAL SERVICES, LLC WASTE PROFILE SUMMARY

Version 06.04 TWI-539242

SELLING REGION LAB - MRL

BUSINESS: PARKER ABEK

DEPT....: .. ADDRESS 1: 2220 PALMER AVE

WASTE NAME: CYANIDE SOLUTION LIQUIDS

ADDRESS 2: CONTACT..:

CITY/ST..: KALAMAZOO

MI 49001

EXPIRES....: 07/02/09 STATUS..... APPR FOR SERV FEDERAL EPA ID: MID005515853 STATE EPA ID..: 9260019999

PHONE.....:

SALES OFFICE ... DET

NUMBER.....: 143-1-413

PROCESS GENERATING WASTE: CLEANING BATH LIQUIDS FROM ELECTROPLATING OPERATIO RE CYANIDES ARE USED SHIP. NAME: WASTE CORROSIVE LIQUIDS, TOXIC, N.O.S

ADDL. DESC:

CHEMICAL COMPOSITION

UNIT DESCRIPTION MTN - MAX

EPA STATUS....: CHK RESTRICT

NON-TRI CHEMICALS

WATER/OIL

CYANIDE SOLUTIONS, LIQUID

99 % 1 2 %

PHYSICAL CHARACTERISTICS

METALS EP TOX/TCLP mg/1 5.0 Arsenic as As < mq/1Cadmium as Cd 1.0 Lead as Pb 5.0 mg/1 mg/1Mercury as Hq . 2 Selenium as Se < 1.0 mg/1

Chromium Hex Nickel as Ni Thallium as Pl

Physical State...: Liquid Flash Point....: 100 - 200 рн...... 12.5 - 14.0 Color..... YELLOW Odor..... NONE Layers..... Single Layer Specific Gravity .: 0.750 - 1.150 Free Liquids....: 95 - 100 Cyanides..... <

PPM TOTAL Sulfides....: < 3 TOTAL PPM PCB's..... ppm, Regulated by 40 CFR 761: Phenolics....: <

DOT UN/NA NBR: UN2922

% Taxable....: Treatment Codes..: T07

CRQ RPT QTY....: Material Class: EPA Permit....: EXP:

Hasard Class....: 8

State Codes....: 090001

Benzene ....: NESHAP:

Packing Group ....: II Process Codes....: SF1 Cert of Dstrct Rq:

Federal Codes: D003 F009 D002 D001

HANDLING

N-Dex Inner Glove NEO. GREY GLOVES SARANEX

TYPE C RESPIR CONST FLOW

INDEX/BLUE NITRILE (INNER GLOVE) SF - CYANIDE SOLUTION, PH > 12.5

CONTAINS CYANIDES - DO NOT MIX WITH PH < 6

DOT PROPERTIES

Inhalation: 3 Dermal: 3

Oral: 3 Flammable: 0 Health: 0

SUMMARY

Waste Type Form Code

B119

Receiver #: 325534

# of Drums: 1 Date: 5/7/2008 Profile #: 539242

Generator: PARKER ABEX

Descript: CYANIDE SOLUTION LIQUIDS

Process Code(s): SF1

PCB Analysis Required Sample Required

> **Drum Storage Compatability** Profiled DOT Hazard Class 8 P = Pass F = Fail

· =				8A8B	4/	5	
Sample Number	282067 000117973VES				1, -		
Drum Rep / Comp	1-5,7-8/1,3-4,7-8			L			
Free Liquid (%)	100			Profile	Conform	Date	Initials
Pumpable	YES No	2820	0/		Yes No	6/4/08	SL.
Layers/Phases -% Ea.	1_100 %	2%	3%		XIII	1	
Color	COLQUEST				XIII		, ii.
Turbidity	N/A (nsP) Trist Opq	N/A TP TL O	N/A TP TL O		XIII		97
Viscosity	NA OM H	N/A L M H	NALMH	L	X		
Physical State	Cig Solid Sludge Semi-sld	Liq Sol Slg Ss	Liq Sol Sig Ss		XIII	11 12 1	
Water Miscibility	Miso Part Floats Sinks Emils	MPFSE	MPFSE		XIII	3 1	
Add. Description							- 1
Water Reactivity	(X) No RXN () RXN:			VIIIII	XIII		
Radiation Screen	<b>₩</b> = <b>B</b> KG ()> <b>B</b> KG:			=BKG	×		
Flam. Pot. Screen	(Neg ()Pos ()B	oc		See Flashpoint	X		
pH Screen	× 100% ( )10% ×	2.5	/	>12.5	م		
Oxidizer Screen	∭X)Neg ()Pos		As	Hg	1111	3	
Paint Filter Test	()Pass ()Fail ()V	-Fail (X)N/A	Be	к	1111	31	3,3
Cyanide Screen	NNeg ()Pos	( ) N/A	Cd	Na	1111	3	
Sulfide Screen	(X) Neg () Pos	( ) N/A	Cr	Pb	1111	3	
Incidental Odor	No ()Yes:				XIII	31	
Specific Gravity				0.750 - 1.150			
BTÚ/Lb		<u>(50</u>	38	1 - 10000	1111	4/19/08	LD
% Chloride		(0	o.5./	1 -5		1. T	auk
Flash Point - Deg F			.1// //	>140		1	
PCBs By GC - mg/kg	_WAIVED not su	spect per AS400-	Illula	<50ppm			
PCBs-Screen - ppm	WAIVED insoluble acetor	ne/hexane		<50ppm			
2,4,5-T/Silvex - ppm	3841	· · · · · · · · · · · · · · · · · · ·		MILLINI	XIII		17.7
PCP Screen - ppm	( ) Kit ( ) GC			MILLIN	XXX	7	
pH by Meter	()100%()10%				11/1/	1	

PCB analysis to be determined upon visual inspection of waste

Additional Comments: SF - CYANIDE SOLUTION, PH > 12.5. If drum is mostly oil, expect BTU's to be greater than 10,000. Profile Review for Appendix WAP-C Constituents by: CLF

Date: 7/2/2007.

Contains Cyanides - DO NOT mix with pH <6

PCB Analysis Required Sample Required

325082 ums: 8 rofile #: 539242 Generator: PARKER ABEX

Descript: CYANIDE SOLUTION LIQUIDS

Process Code(s): SF1

**Drum Storage Compatability** Profiled DOT Hazard Class 8

P = Pass F = Fail

6 P

				8A8B	4/5		į
Sample Number	282310 000117972VES	HIIHM					-
Drum Rep / Comp	1-8/1-2,4-5,8				···		
Free Liquid (%)	99			Profile	Conform	Date	Initials
Pumpable	(Pe) No	282	2310		Yes No	5/30/08	SL
Layers/Phases -% Ea.	1 _99_%	2%	3%			1	
Color	RED	tain			1111		
Turbidity	N/A (nsP) Trisl. Opq	MA TP TLO	NA TP TL O		1111		
Viscosity	N/ACM H	<b>®</b> L M H	N/A L M H	L	7		
Physical State	Lig Solid Sludge Semi-sld	Liq Gol Sig Ss	Liq Sol Slg Ss				
Water Miscibility	Misc Part Floats Sinks Emis	M Ø F 🛇 E	MPFSE	MANAGE	1111		
Add. Description POND	tr-LIKE BOTTOM LAYE	2			The state of the s		
Water Reactivity	No RXN ()RXN:		/	MILLIA	XIII		
Radiation Screen	<b>√</b> )=BKG ()>BKG:			=BKG	x		
Flam. Pot. Screen	Neg ()Pos ()B			See Flashpoint	x		
pH Screen	X 100% ( ) 10% >	e.5		>12.5	\ <u>\</u>		
Oxidizer Screen	Neg () Pos		As	Hg			
Paint Filter Test	()Pass ()Fail ()V-	Fail (XIN/A	Be	к			
Cyanide Screen	()Neg (XPos	() N/A	Cd	Na			
Sulfide Screen	V∕Neg ()Pos	( ) N/A	Cr	Pb	1111		
Incidental Odor	No ()Yes:				XIII		
Specific Gravity				0.750 - 1.150		11	
ВТИ/LЬ	<b>∑</b> ≥	1500		1 - 10000	1111	6-208	TDA
% Chloride	X	<u>1500</u>	V	1 - 5	1111	1	3
Flash Point - Deg F				>140		3	
PCBs By GC - mg/kg	WANTED inco	oluble acetone/hex		<50ppm			
PCBs-Screen - ppm		HANDER COLUMNICATION OF CASE	ane	<50ppm			
2,4,5-T/Silvex - ppm	4				XIII	3	
PCP Screen - ppm	()Kit()GC				XIII	3	
pH by Meter	()100%()10%			MITTELL	XXXX	3	1

PCB analysis to be determined upon visual inspection of waste

Additional Comments: SF - CYANIDE SOLUTION, PH > 12.5. If drum is mostly oil, expect BTU's to be greater than 10,000

Profile Review for Appendix WAP-C Consitituents by: CLF

Date: 7/2/2007

Contains Cyanides - DO NOT mix with pH <6

Receiver #: 326716

# of Drums: 11 Date: 5/30/2008 Profile #: 539242

Generator: PARKER ABEX

Descript: CYANIDE SOLUTION LIQUIDS

Process Code(s): SF1

PCB Analysis Required Sample Required

**Drum Storage Compatability** 

Profiled DOT Hazard Class 8

P=Pass F=Fail

				8A8B	4/5	5	
Sample Number	283310 000117974VES	HINRELL			•		
Drum Rep / Comp	1-11/7-11						
Free Liquid (%)	100	2833		Profile	Conform	Date	Initials
Pumpable	Yes No	2033	10	VIIIIII.	Yes No	6/16/0	RUH
Layers/Phases -% Ea.	1 too %	2%	3%		XIII	1	
Color	DRANGE				XIII		
Turbidity	N/A Trisp (rist) Opq	N/A TP TL O	NVA TP TL O		XIII	3	
Viscosity	N/A DM H	N/A L M H	N/A L M H	L	70		
Physical State	Lig Solid Sludge Semi-sld	Liq Sol Sig Ss	Liq Sol Sig Ss		XIII		
Water Miscibility	Miso Part Floats Sinks Emls	MPFSE	MPFSE		XIII		
Add. Description							
Water Reactivity	(A) No RXN () RXN:			MILLIAM	XIIIX	3	
Radiation Screen	%=BKG ()>BKG:			=BKG	2		
Flam. Pot. Screen	Neg () Pos () B	oc		See Flashpoint	p		
pH Screen	100% ( ) 10% >	12.5		( >12.5	P		
Oxidizer Screen	Neg ()Pos		As	Hg	1111	3	
Paint Filter Test	() Pass () Fail () V	Fail 60 N/A	Be	к	1111	3	
Cyanide Screen	() Neg DenPos	()N/A OK	Cd	Na	1111	3	
Sulfide Screen	Neg ()Pos	( ) N/A	Cr	Pb	1111	3	
Incidental Odor	YNo ()Yes:				XXXX	31	
Specific Gravity				0.750 - 1.150	1111	1	
BTU/Lb		<b>&lt;500</b>	,	1 - 10000	1111	Chelo	8 Push
% Chloride		(0.5		1 - 5	1111	1	100
Flash Point - Deg F		······································		>140	1111	3	
PCBs By GC - mg/kg	WAIVED insolu	ole acetone/hexane		<50ppm			
PCBs-Screen - ppm				<50ppm		1	
2,4,5-T/Silvex - ppm			-		MILL	4	
PCP Screen - ppm	()Kit()GC				11/11	4	
pH by Meter	()100%()10%		<del> </del>	11/1///	1444	7	
					<del>, , , , , , , , , , , , , , , , , , , </del>		

PCB analysis to be determined upon visual inspection of waste Additional Comments: SF - CYANIDE SOLUTION, PH > 12.5. If drum is mostly oil, expect BTU's to be greater than 10,000. Profile Review for Appendix WAP-C Constituents by: CLF

Date: 7/2/2007

Contains Cyanides - DO NOT mix with pH <6

ONYX ENVIRONMENTAL SERVICES. LLC tepert: R7 08 ATE: 07/31/08 WASTE PROFILE SUMMARY

Version 06.04 TWI-396926

SELLING REGION LAB - MRL

BUSINESS: US ARMY ENGINEER CENTER FLW DEPT....: ..DIRECTOR OF PUBLIC WORKS

ADDRESS 1: 1334 1ST ST BLDG 2229 ADDRESS 2: ATZT DPW EE BLDG 2101

CITY/ST..: FORT LEONARD WOOD MO 65473-8944

CONTACT..:

EXPIRES..... 07/24/10 STATUS..... APPR FOR SERV FEDERAL EPA ID: M03213720979 STATE EPA ID. .: 9290019999 EPA STATUS....: UNDETERMINABL

NUMBER....: 142-4-441

SALES OFFICE ... RPK

PHONE.....

WASTE NAME: DECON WATER-TREATED VX & GB TO DRINKING WATER STANDARDS PROCESS GENERATING WASTE: DECON OF CHEMICAL WEAPONS RECOGNITION TRAINING COM

SHIP. NAME: NON-REGULATED MATERIAL

ADDL. DESC:

SODIUM HYDROXIDE

NON-TRI CHEMICALS

WATER

CHEMICAL COMPOSITION MTN - MAX UNIT DESCRIPTION

100 % 1 2 %

SUPER TROPICAL BLEACH 5 % COMMENTS

TRACES OF VX AND GB AGENT ARE NEUTRALIZED WITH BLEACH AND RINSED WITH THOUSANDS OF GALLONS OF WATER, THEN COLLECTED FOR

INCINERATION. ALL WATER IS TESTED PRIOR TO SHIPMENT TO ENSURE

COMPLIANCE WITH DRINKING WATER STANDRADS. VX AND GB

CONCENTRATION ARE CERTIFIED TO BE BELOW 20 PPB AND ARE USUALLY

<2 PPR. (3x LEVEL) EP TOX/TCLP METALS PHYSICAL CHARACTERISTICS Nickel as Ni Physical State ...: Liquid Thallium as T1 Flash Point....: > = 200 CL Barium as Ba 100.0 mq/l pH..... 05.0 - 09.0 Cadmium as Cd 1.0 mg/1 Color..... VARIES

Chromium tot Cr < 5.0 mg/l Odor.... NONE Lead as Pb 5.0 mg/1Layers..... Single Layer Silver as Ag 5.0 mg/l Specific Gravity .: 0.950 - 1.150 Antimony Free Liquids....: 99 - 100

Vanadium Cyanides..... < PPM TOTAL Arsenic as As 5.0 mg/l Sulfides..... < PPM TOTAL Mercury as Hg mq/1. 2 PCB's..... N/A ppm, Regulated by 40 CFR 761: Bervllium Phenolics.,.... <

Potassium \* Taxable....: DOT UN/NA MBR: Sodium

Treatment Codes..: T07 Selenium as Se 1.0 mg/1CRQ RPT QTY....: Material Class:

Chromium Hex EPA Permit....: Hazard Class ....:

State Codes....: 090002

Benzene .....: NESHAP:

Packing Group ....: Process Codes...: DI2 Cert of Dstrct Rq: Y

Pederal Codes: NH00

NEO. GREY GLOVES

HANDLING

N-DEX INNER GLOVE

TYVER proshield I.II

INDEX/BLUE NITRILE (INNER GLOVE) DI-WATER WITH DECOMPOSITION PRODUCTS OF GB/VX.

REACTIVE CATEGORY: A (FOR SCHEDULING ONLY)

DOT PROPERTIES Inhalation: 1 Dermal: 1

Oral: 1

Flammable: 0 Health: 0

SUMMARY Waste Type B219

Form Code 1

19)

File Inventory Print Approvals Chamist Receiving Laboratory Tank Form	кта Process Planning Window Billing Help	
Profile Approvals		
Profile Number Process Code(s)	DOT Hazard Class   Sample Characteristics   Viscocity   Viscocity   N/A	4/A
Retrieve   PCB Analysis Raquired   Cab: Rummetals as specified below   Dioxin Precursor Analysis Required	_ pH Screen	12.5 lavity
	\	<u>a</u>
Cancel  Cancel  Thecewing Verify Bignal Censumer Label and Write Label Info on PDW  Decart Symble Required  Sample Required	nto on PDW Flashpoint T <73 F <140	40 IT N/A
Analytical Comments   Analytical Comments   Paletence Tracking # / Sample # for analysis:	- Metals-	
Dioxin Pracusor analysis results below site action levels     Ne additional analysis required     Run on each load	evels AS 10	
The transfer of the control of the	on of waste	
Additional Comments: MAY EXHIBIT POSITIVE OXIDIZER DUE TO BLEACH GENER	5	
Picfile and Handfirg Comments  Profile Review for Appendix WARPE Enrighternits by CAK on 772/2008	HG 0	
Wester headuive - avoid pointed with monstare  Contains Eyanids - DD NDT mis with pH < 6	D ₹N	
Benzene NESHAP confinds required  Poison Inhalation Hazard Contains Academitile Contains Hydroflouric Acid	drollouric Acid	
A Beactive Category	ASH 31	
Additional Comments: DI - WATER WITH DECOMPOSITION PRODUCT OF GB/XX	: GB/VX	



Sample Required

Receiver #: 328430

# of Drums: 1 Date: 7/2/2008 Profile #: 396926

Generator: US ARMY ENGINEER CENTER FLW

Descript: DECON WATER-TREATED VX & GB TO DRINKING WATER STANDARDS

Process Code(s): DI2

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

	,		_			8	8A 8B		4/5	5	
Sample Number	284140	001069284FL				-					
Drum Rep / Comp	BULK/0					L				<del></del> ~	
Free Liquid (%)	100		111111111111111111111111111111111111111			Profile		Con	form	Date	Initials
Pumpable	YES		2841	40				Yes	No	07/03/08	KZ
Layers/Phases -% Ea.	100			T		111	11111	11	111		
Color	colorless					11/1	11111	11	44		
Turbidity	transparer	nt					11111	14	4		
Viscosity	low				***************************************	L	,,,,,,	1	X		
Physical State	liquid				··	111		11	111		
Water Miscibility	Misc				<del></del>	_///	77777	11	77		
Add. Description	<del></del>		<u> </u>	1			,,,,,,,	477	777		
Water Reactivity	No RXN					7//		11	111		<del> </del>
Radiation Screen	-BKG			·····		=BKG	77/17/	177	X		<u> </u>
Flam. Pot. Screen	NEGATIVE	χ.,				See F	lashpoint		х		<u> </u>
pH Screen	6 at 100 p	pent				2-12.	5		х		
Oxidizer Screen	POSITIVE			As	0	Hg	0	1	11		
Paint Filter Test	N/A			Be	0	К	0	11	77		<del>                                     </del>
Cyanide Screen	NEGAT IVE			Cd	0	Na	0	1	44		<del>                                     </del>
Sulfide Screen	NEGATIVE			Cr	0	Pb	0	11	4		
Incidental Odor	No			<u> </u>		111	11111	11	77		
Specific Gravity	1.02					0.950	1-1.150	11	44	07/03/08	KZ
BTU/Lb	<500					1 -	5000	11	44	07/03/08	SL
% Chloride	<0.5					2 -(	)	11	44	07/03/08	RWH
Flash Point - Deg F						>14	0	14	44	01/01/00	<b>†</b>
PCBs By GC - mg/kg						<50pp	m	122	727	07/03/08	
PCBs-Screen - ppm						<50pp	m	1		01/01/00	<u> </u>
2,4,5-T/Silvex - ppm	/					111	77777	11	///	01/01/00	
PCP Screen - ppm						111	77777	11	44	01/01/00	
pH by Meter						///	11111	11	44	01/01/00	

Additional Comments: MAY EXHIBIT POSITIVE OXIDIZER DUE TO BLEACH-GENERATOR DOES NOT WANT TO ADD D003. Profile Review for Appendix WAP-C Constituents by: CAK

Date: 7/2/2008 Reactive Category: A

Add. Comments: DI - WATER WITH DECOMPOSITION PRODUCT OF GB/VX

Sample Required

Receiver #: 328431

# of Drums: 1 Date: 7/2/2008 Profile #: 396926

Generator: US ARMY ENGINEER CENTER FLW

Descript: DECON WATER-TREATED VX & GB TO DRINKING WATER STANDARDS

Process Code(s): DI2

Profiled DOT Hazard Class 9

P = Pass F = Fail

8A 8B 4/5

					8A8B.		_ 4/5	<u> </u>	
Sample Number	284139 001069272FLE	HEERE! IR!	HI II						
Drum Rep / Comp	BULK/0								
Free Liquid (%)	100				Profile	Conf	om	Date	Initials
Pumpable	YES	28413	9			Yes	No	07/03/08	K2
Layers/Phases -% Ea.	100						III		
Color	colorless								
Turbidity	transparent								
Viscosity	low				L		Х		
Physical State	liquid								
Water Miscibility	Misc						7/		
Add. Description									
Water Reactivity	No RXN						11		
Radiation Screen	-BKG				=BKG		Х		
Flam. Pot. Screen	NEGATIVE				See Flashpoint		Х		
pH Screen	8 at 100 pcnt				2-12.5		х		
Oxidizer Screen	POSITIVE		As	0	Hg 0				
Paint Filter Test	N/A		Be	0	K 0		///		
Cyanide Screen	NEGATIVE		Cd	0	Na <sup>0</sup>		///	1	
Sulfide Screen	NEGATIVE		Cr	0	<b>Pb</b> 0		//		
Incidental Odor	No						11	1	
Specific Gravity	1.01				0.950 - 1.150		//	07/03/08	KZ
BTU/Lb	<500			-	1 - 5000	11	//	07/03/08	МТ
% Chloride	<0.5				2 -0	11	11	07/03/08	RWH
Flash Point - Deg F					>140	11	11	01/01/00	
PCBs By GC - mg/kg					<50ppm			07/03/08	3
PCBs-Screen - ppm					<50ppm			01/01/00	
2,4,5-T/Silvex - ppm	/					11/	11	01/01/0	0
PCP Screen - ppm					1111111	2//	11	01/01/0	0
pH by Meter					1111111	277	14	01/01/0	0

Additional Comments: MAY EXHIBIT POSITIVE OXIDIZER DUE TO BLEACH-GENERATOR DOES NOT WANT TO ADD D003. Profile Review for Appendix WAP-C Constituents by: CAK

Date: 7/2/2008

Reactive Category: A

Add. Comments: DI - WATER WITH DECOMPOSITION PRODUCT OF GB/VX

sport: R7008 ATE: 07/31/08

#### ONYX ENVIRONMENTAL SERVICES, LLC WASTE PROFILE SUMMARY

Version 06.04 TWI-388852

SELLING REGION LAB - MRL

USINESS: R T VANDERBILT COMPANY INC EPT....: ..VANDERBILT CHEMICAL-MURRAY

DDRESS 1: 396 PELLA WAY

DDRESS 2:

ITY/ST..: MURRAY ONTACT. .: JOE CURTIS KY 42071-7855

FEDERAL EPA ID: KYD053350229 STATE EPA ID..: 9210019999 EPA STATUS....: CHK RESTRICT

SALES OFFICE..: TWI

NUMBER..... 105-0-816

EXPIRES..... 03/19/10

PHONE..... 270/753-4926

STATUS..... APPR FOR SERV

ASTE NAME: BULK MIXED WASTE LIQUIDS

ROCESS GENERATING WASTE: WASTE ALCOHOLS, SPENT SCRUBBER SOLUTIONS, SUMPWATE

HIP. NAME: WASTE ALCOHOLS, N.O.S

DDL. DESC:

CHEMICAL COMPOSITION	MIN - MA	X UNIT DESCRIPTION
PATER	50	99 %
SODIUM HYDROXIDE	0	15 %
SODIUM CARBONATE	0	15 %
NON-TRI CHEMICALS		
ALCOHOLS (ISOPROPANOL, ETHYL HEXANOL, ETC)	0	50 %
AMINES (DIBUTYL-, DIMETHYL-, DIAMYL-, ETC)	0	2 %
roluened i amine	0	5 %
CARBON DISULFIDE	0	2 %

CARBON DISOBFIDE			0 2 %		
METALS EP TOX/TCLP	•	PHYSICAL	CHARACTERISTICS		
Arsenic as As < 5.0	mg/1	Physical State: Liquid	,		
Cadmium as Cd < 1.0	mg/l	Flash Point: < 70 - 13	19 CL		
Lead as Pb >= 5.0	mg/1	рн 12.5 - 14	1.0		
Mercury as Hg < .2	mg/l	Color VARIES			
Selenium as Se < 1.0	mg/l	Odor NONE			
Chromium Hex		Layers Single La	ayer		
Nickel as Ni		Specific Gravity.: 0.950 - 1	1.150		
Thallium as Tl		Free Liquids: 95 - 100	) ·		
		Cyanides <	5	PPM	TOTAL
		Sulfides <	3	PPM	TOTAL
		PCB's:	ppm, Regulated by	40 CFR 761	1:
		Phenolics: <	10	PPM	
		% Taxable:	DOT UN/NA NBR: UN1987		
		Treatment Codes: T07			
		CRQ RPT QTY: 100	' Material Class:		
•		EPA Permit	EXP:		•
		Hazard Class: 3			
	•	State Codes: 090001			
		Benzene:	NESHAP:		
		Packing Group: III			

Process Codes....: BLH Cert of Dstrct Rq:

Federal Codes: D001 D002 K161 U221 U092 D008

NEO. GREY GLOVES

HANDLING

CPF 3

N-DEX INNER GLOVE

TYPE C RESPIR CONST FLOW

NOMEX

CANCER SUSPECT AGENT: LEAD

CHECK COMPAT CAREFULLY-MAY CONTAIN UP TO 15% NaOH & TRACE AMINES

DUE TO RANGES IN CHEM COMP, BTU AND PH MAY VARY GREATLY

Inhalation: 3

Dermal: 3

DOT PROPERTIES

Oral: 2

Health: 0

Waste Type

SUMMARY.

File Investory Frint Approvals Chamist Receiving Leboratory Tank Farm Process Planning Win	Window Billing Help
Profile Approvals	
Profile  Number Process Code(s)  SSBS52  BLH →	Sample The accessors Viscocity  TO L M M H M N/A
	pH Screen
Wasial Inspection: Blove Box / Hooded Feeder	1-6000 BTU/lb
Cancel  Thecelveng Veilly Dignal Consumer Label and Write Label Info on PDW  Decara Sample Required  Sample Required	ashpoint  73   7 < 140
Analytical Comments   Analytical Comments   Reference Tracking # / Sample # for analysis:	Mel als
Diouin Precursor analysis tesults below site action levels     No additional analysis teguined     Record analysis teguined	AS  5 BE  0
Analysis supplied by generator - See Tech. Manager File     Last Updated By:     PCB analysis to be determined upon visual inspection of waste.	0 00
carolyn	CB   76.5
Profile and Handing Comments Profile Review for Appendix WAR-C Constituents by: CAK on [2/15/2008]  Water Reactive - avoid portact wills ingistate Contains Cyanids - DD NDT mix with pth % 6	0 4
Benzens NESHAP controls required Poison Inhalation Hazard Contains Acytonitife Contains Hydroflouric Acid	PB [22.1
Additional Comments:  CHECK COMPAT CAREFULY-HYDROXIDE & TRACE AMINES: BTU &	ASH [2.36

搜索的证据的企业的现在分词 医克拉氏性皮肤后足术

Report: 27067 DATE: 07/31/08

#### ONYX ENVIRONMENTAL SERVICES. LLC WASTE PROFILE SUMMARY

Version 06.04 TWI-388522

SELLING REGION LAB - MRL

BUSINESS: BAYER CROP SCIENCE 

NUMBER....: 103-9-594

ADDRESS 1: 1740 WHITEHALL RD

PHONE . . . . . . . :

ADDRESS 2:

**EXPIRES....:** 01/05/10

CONTACT. :

WATER

STATUS..... APPR FOR SERV

CITY/ST..: MUSKEGAN

FEDERAL EPA ID: MID080358351 STATE EPA ID. .: 9260019999 EPA STATUS....: CHK RESTRICT

WASTE NAME: MOTHER LIQUOR RESIDUE

MT 49445

SALES OFFICE..: TWI

PROCESS GENERATING WASTE: PROCESS WASTE FROM MANUFACTURING OF INTERMEDIATE H IDE

SHIP. NAME: HAZARDOUS WASTE, LIQUID, N.O.S

ADDL. DESC: (METHANOL, GLUFOSINATE AMMONIUM)

CHEMICAL COMPOSITION MIN - MAX UNIT DESCRIPTION NON-TRI CHEMICALS GLUFOSINATE AMMONIUM 30 % 0 AMMONIUM CHLORIDE 0 20 % METHANOL 0 5.8 % 20 70 % NON-TRI CHEMICALS

OTHER RELATED COMPOUNDS 8 %

EP TOX/TCLP METALS PHYSICAL CHARACTERISTICS 5.0 mg/lArsenic as As Physical State ...: Liquid Cadmium as Cd 1.0 mg/l Flash Point ....: 100 - 200 pH..... 04.0 - 06.0 5.0 mg/1Lead as Pb mg/1Mercury as Hg . 2 Color..... BROWN/VARIES Selenium as 50 1.0 mg/l Odor.... NONE Chromium Hex Layers..... Multi Layer Nickel as Ni Specific Gravity.: 0.950 - 1.150 Thallium as Tl Free Liquids....: 99 - 100

Cyanides..... < PPM TOTAL Sulfides..... < PPM TOTAL PCB's..... ppm, Regulated by 40 CFR 761:

Phenolics..... < 10 DOT UN/NA NBR: NA3082

\* Taxable....: Treatment Codes ..: T07

CRQ\_RPT QTY..... Material Class: EPA Permit....: EXP:

. Hazard Class....: 9

State Codes....: 090001

Benzene .....:

Packing Group....: III Process Codes....: BLL Cert of Dstrct Rq:

Federal Codes: F003

HANDLING

NEO. GREY GLOVES N-DEX INNER GLOVE TYPE C RESPIR CONST PLOW

SARANEX

Inhalation: 2

DOT PROPERTIES

Dermal: 2

Oral: 2

Health: 0

NESHAP:

SUMMARY **B219** 

Waste Type Code

1

	Proble and Handing Laminants  Proble Review for Appendix WAF C Constituents by CAK on 12/11/2007  Water Reactive - avoid contact Alith indistrate  Contains Cuanda - DC NOT mix with pH < 6  NA   0
--	---

21

Visual Inspection: Glove Box / Hooded Feeder

Receiver #: TK002

# of Drums: 1 Date: 6/29/2001 Profile #: ZZZZZZ

Generator: TRADE WASTE INCINERATION

Descript:

Process Code(s):

Profiled DOT Hazard Class 9

P = Pass F = Fail

3A\_\_\_\_\_8B\_\_\_\_4/5\_\_\_\_

						8	A8B		4/5	<u> </u>	
Sample Number 2	285174	1L00000001									
Drum Rep / Comp 1	-/										
Free Liquid (%)			285174			Profile		Conform		Date	Initials
Pumpable N	ю							Yes No		08/01/08	AJ
Layers/Phases -% Ea.								11			
Color									111		
Turbidity									111	}	
Viscosity						L			х		
Physical State											
Water Miscibility	7							11	11		
Add. Description											
Water Reactivity									III		
Radiation Screen						=BKG			х		
Flam. Pot. Screen						See F	lashpoint		х		
pH Screen	6 at 100 p	ent				2-12.	5		х		
Oxidizer Screen				As	240	Hg	65	1	111		
Paint Filter Test				Ве	0.20	К	0.02	1	7	}	
Cyanide Screen				Cd	9.3	Na	0	11	111	1	
Sulfide Screen				Cr	14	Pb	0	1	[[]	}	1
Incidental Odor				Ası	2.218	111			114		
Specific Gravity	1.10							1	111	08/01/08	AJ
BTU/Lb	2430							1/	11	08/01/08	MT
% Chloride	2.5							1	///	08/01/08	JF
Flash Point - Deg F				ر				1	///	01/01/00	
PCBs By GC - mg/kg						<50pp	enn .		T	08/01/08	
PCBs-Screen - ppm						<50pp	om			01/01/00	1
2,4,5-T/Silvex - ppm	1					111		1	111	01/01/00	
PCP Screen - ppm						111	//////	1/	111	01/01/00	
pH by Meter						111	777777	11	14	01/01/00	1

Profile Review for Appendix WAP-C Consitituents by:

Date:

Add. Comments: blend analysis

# Attachment 2

Revised Data Sheets for Waste Feed Protocol

Renged

### TWI Laboratory Analysis Report

Sample Required

Receiver #: 329006

# of Drums: 1 Date: 7/17/08 Profile #: 032206 Generator: ZEXEL CARVEOUT AREA Descript: SOLIDIFIED SLUDGE Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fall

							8A8B4/5						
Sample Number	284638	000231228VES	#######										
Drum Rep / Comp	BULK/0			mii									
Free Liquid (%)	0		2046	Profile		Con	form	Date	Initials				
Pumpable	МО		284638					Yes	No	07/17/08	ΑJ		
Layers/Phases -% Ea.	100	.00											
Color	brown - da	ark											
Turbidity	N/A												
Viscosity	N/A					N/A	<u> </u>		Х				
Physical State	solid					1.1.							
Water Miscibility	Part Float	ts Sinks							100				
Add. Description	sludge												
Water Reactivity	No RXN					1999	Miller .				İ		
Radiation Screen	=BKG		=BKG	<del></del>		x							
Flam. Pot. Screen	NEGATIVE					See F	lashpoint		х				
pH Screen	6 at 10 p	6 at 10 pcnt					5		Х				
Oxidizer Screen	NEGATIVE			As	3.4	Pb	206	1, 1					
Paint Filter Test	N/A			Be	0.1	Hg	1.03	1	4				
Cyanide Screen	NEGATIVE	CYANTESMO		Cd	198	Na	0						
Sulfide Screen	POSITIVE			Cr	1193	К	0		<del>, ,</del>				
Incidental Odor	No			ASH	36.68		1000						
Specific Gravity						0.000	0.000	16		01/01/00			
BTU/Lb	2340					2000	- 10000			07/17/08	MT		
% Chloride	<0.5					1 - 5	<u> </u>		<del>, , , ,</del>	07/17/08	TD		
Flash Point - Deg F						N/A	\			01/01/00			
PCBs By GC - mg/kg						<50pp	m	1	T	07/17/08			
PCBs-Screen - ppm					<del></del>	<50pp	om	1		01/01/00			
2,4,5-T/Silvex - ppm	1								<del>, 1</del>	01/01/00			
PCP Screen - ppm										01/01/00			
pH by Meter							11/11/11	1		01/01/00			

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Constituents by: KMEREDITH

Sample Required

Receiver #: 329047

# of Drums: 1 Date: 7/17/08 Profile #: 032206

Generator: ZEXEL CARVEOUT AREA Descript: SOLIDIFIED SLUDGE

Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

								8A8B4/5							
Sample Number	284637	000231231VES	11 2 2 11 12 11 11												
Drum Rep / Comp	BULK/0	ULK/O													
Free Liquid (%)	0		1100111111111	Profile	)	Cor	form	Date	Initials						
Pumpable	МО		284637					Yes	No	07/17/08	AJ				
Layers/Phases -% Ea.	100	00													
Color	brown - da	ark					Marie Contract								
Turbidity	N/A														
Viscosity	N/A					N/A			Х						
Physical State	solid								J. Car						
Water Miscibility	Part Float	Part Floats Sinks													
Add. Description	mud-like														
Water Reactivity	No RXN	No RXN						75	11						
Radiation Screen	≖BKG						}		х						
Flam. Pot. Screen	NEGATIVE						lashpoint		Х						
pH Screen	6 at 10 pc	6 at 10 pcnt							Х						
Oxidizer Screen	NEGATIVE			As	3.4	Pb	206				í				
Paint Filter Test	N/A			Be	0.1	Hg	1.03			1					
Cyanide Screen	NEGATIVE (	CYANTESMO		Cd	198	Na	0				; I				
Sulfide Screen	POSITIVE			Cr	1193	К	0								
Incidental Odor	No			A	SH 36.68			N	1						
Specific Gravity						0.000	0.000			01/01/00					
BTU/Lb	2110	2110					- 10000	V. 1.		07/17/08	TM				
% Chloride	<0.5	<0.5					5			07/17/08	TD				
Flash Point - Deg F							1			01/01/00					
PCBs By GC - mg/kg							om		T	07/17/08					
PCBs-Screen - ppm							om			01/01/00					
2,4,5-T/Silvex - ppm	1			· · · · · · · · · · · · · · · · · · ·						01/01/00					
PCP Screen - ppm							11111		1.1	01/01/00					
pH by Meter						T. S				01/01/00	<del> </del>				

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Consitituents by: KMEREDITH Date: 2/11/08

Sample Required

Receiver #: 329110

Process Code(s): BSH

# of Drums: 1 Date: 7/17/08 Profile #: 032206 Generator: ZEXEL CARVEOUT AREA Descript: SOLIDIFIED SLUDGE

Profiled DOT Hazard Class 9

**Drum Storage Compatability** 

P = Pass F = Fail

8B 4/5

01/01/00

Sample Number 284642 000231230VES Drum Rep / Comp BULK/0 Free Liquid (%) 0 Profile Conform Date Initials ИО **Pumpable** Yes No 07/18/08 ΑJ Layers/Phases -% Ea. 100 Color multi N/A **Turbidity** Viscosity N/A Х N/A solid Physical State Part Floats Sinks Water Miscibility Add. Description dirt, plastic, ppe, clothing, and tape No RXN Water Reactivity ≖BKG Radiation Screen =BKG Х Flam. Pot. Screen BOC See Flashpoint Х 6 at 10 pcnt pH Screen 2-12.5 Х Oxidizer Screen NEGATIVE As 3.4 Pb 206 N/A **Paint Filter Test** Be 0.1 1.03 Hg NEGATIVE Cyanide Screen Cd 198 Na 0 Sulfide Screen POSITIVE 1193 Κ 0 Çr Incidental Odor No ASH 36.68 Specific Gravity 0.000 - 0.00001/01/00 BTU/Lb 8710 07/18/08 2000 - 10000 MT < 0.5 % Chloride 1 - 5 07/18/08 TD Flash Point - Deg F N/A 01/01/00 PCBs By GC - mg/kg 07/18/08 <50ppm PCBs-Screen - ppm 01/01/00 <50ppm 2,4,5-T/Silvex - ppm 1 01/01/00 PCP Screen - ppm 01/01/00

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Consitituents by: KMEREDITH Date: 2/11/08

pH by Meter

Sample Required

Receiver #: 329224

# of Drums: 1 Date: 7/17/08 Profile #: 032206

Generator: ZEXEL CARVEOUT AREA Descript: SOLIDIFIED SLUDGE

Process Code(s): BSH

**Drum Storage Compatability** 

Profiled DOT Hazard Class 9

P = Pass F = Fail

		*	7			8	A8B		4/5	<u> </u>	
Sample Number	284643	000231232VE	s IIIII								
Drum Rep / Comp	BULK/0										
Free Liquid (%)	0		111111111111111111111111111111111111111	284643				Con	form	Date	Initials
Pumpable	NO		2846					Yes	No	07/18/08	AJ
Layers/Phases -% Ea.	100										
Color	brown										
Turbidity	N/A										
Viscosity	N/A					N/A	······································		Х		
Physical State	solid					100		100			
Water Miscibility	Part Float	ts Sinks							11/1		
Add. Description	mud-like							+			
Water Reactivity	No RXN										
Radiation Screen	=BKG	⇒BKG							х		
Flam. Pot. Screen	NEGATIVE						lashpoint		х		
pH Screen	7 at 10 pe	7 at 10 pcnt							х		
Oxidizer Screen	NEGATIVE			As	3.4	Pb	206		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Paint Filter Test	N/A			Be	0.1	Hg	1.03				
Cyanide Screen	NEGATIVE			Cd	198	Na	0			1	
Sulfide Screen	POSITIVE			Cr	1193	К	0				
Incidental Odor	No			Асн	36.68				11/1		
Specific Gravity						0.000	0.000			01/01/00	
BTU/Lb	2110					2000	- 10000		le de la constante de la const	07/18/08	RWH
% Chloride	< 0.5					1 - 5	5		176	07/18/08	TD
Flash Point - Deg F						N/A	\	1	17	01/01/00	
PCBs By GC - mg/kg						<50pp	m	$\Box$	T	07/18/08	
PCBs-Screen - ppm						<50pp	om			01/01/00	
2,4,5-T/Silvex - ppm	1	2				17.77	Marie Marie		11/	01/01/00	
PCP Screen - ppm							Jan Sala			01/01/00	
pH by Meter	<del> </del>			<del>***</del> ********			The William			01/01/00	<del> </del>

Additional Comments: 12 samples were pulled from 4 rolloff boxes, and the average number was used for metals. Profile Review for Appendix WAP-C Constituents by: KMEREDITH Date: 2/11/08

# Attachment 3

Specification Sheets for Spike Materials



26 Parkridge Road Ward Hill, MA 01835 USA

T: 1-978-521-6300 F: 1-978-521-6350 E: info@alfa.com

www.alfa.com

# **Product Specification**

**Catalog Number:** 

14497

**Product Name:** 

Mercury(II) nitrate hydrate, ACS, 98.0% min

Alternate Name:

None

Structure:

 $Hg(NO_3)_2 \cdot xH_2O(x = 1 - 2)$ 

Chemical Abstract No: 7783-34-8

**EINECS:** 

233-886-4

TSCA:

Yes

Formula Weight:

324.60 anhy.

# **Technical Data (Literature Values)**

Density:

4.39 g/mL

**Boiling point:** 

No data found

**Melting Point:** 

79°C

Flash point:

No data found

# Specification (maximum allowed)

Residue after reduction:

0.01%

Chloride (CI):

0.002%

Sulfate (SO<sub>4</sub>):

0.002%

Iron (Fe):

0.001%

 $Hg_2(NO_3)_2 \cdot H_2O$  or  $Hg_2(NO_3)_2 \cdot 2H_2O$  assay:

98.0% min.

Prepared by: Gregory Harris **Technical Service** May 16, 2008



#### PDC Laboratories, Inc.

3278 N. Highway 67 • Florissant, MO 63033 (314) 432-0550 • (800) 333-FAST (3278) • FAX (314) 432-4977



#### **Laboratory Results**

Veolla Environmental Services #7 Mobile Avenue

Sauget, IL 62201 Attn : Mr. Trey Formby Date Received: 08/01/08 13:49

Report Date : 08/01/08 Customer # : 205130 P.O. Number : P2008-02

Facility:

Sample No: 08088017-1 Collect Date 08/01/08 00:01

Client ID: 080108 N Site: Locator:

Parameter Qualifier Result Analysis Date Analyst

EPA 245.1
Mercury 710 ppm

ppm 08/01/08 12:30

**WPS** 

#### **ACCREDITATIONS**

NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100253.

Certified by: Nahara G. Pandallo Barbara G. Pandolfo, Project Manager

This report shall not be reproduced, except in full, without the written approval of the taboratory.

**HARCROS** 

PAGE: 02/04

12/27/2007 10:22 PAX SIE 487 1234

WEGO MINERAL

**to Chemical Jiffmeral Ocirp.** 239 Great Nack Road Great Hock, NY 11021 UNITED STATES Phone: (516) 467-2510 Fax: (516) 467-2794

TECHNICAL DATA

CERTIFICATE OF ANALYSIS

Product Namo: LEAD NITRATE TECH - 25 KG BAGS

Wago Tracking Number 00004286 File Humber 42728

CAS# 10099-74-8

**Зунопунки** 

11250 ich No 2007KY067 0.02 % max 0.01 % (10.0

4306 HJY0710281



NIKKIN FLUX CORP. PO Box 402 Edwardsville, IL 62025 Tel: (618) 656-2125 Fax: (618) 656-2305 www.nikkinflux.com

Ref. No. <u>SG/326/07-08</u>

Date JAN 3, 2008

### TEST CERTIFICATE (CERTIFICATE OF ANALYSIS)

**PRODUCT** 

HEXACHLOROETHANE

FORM

WHITE, CRYSTALLINE POWDER

(FREE-FLOWING MATERIAL)

COLOR

SNOW-WHITE

ODOR

CAMPHOR-LIKE

(1) PURITY (% BY GLC) :

99.93%

(2) MELTING POINT

186 °C

(3) MOISTURE (% WT.)

0.016%

(4) ASH (% WT.)

0.078%

(6) FREE CHLORINE

NIL :

(6) WATER SOLUBLE

0.002%

CHLORIDE (% NaCI)

(7) GRADING

-18 +150 Mesh BSS

Post-It* Fax Note 7871	Date 6/23/08 paper 1/1
To Jae Bearden	From Steven Schoeffler
Co.DMM. Veolia	Co. Nikkin Plyx Gop.
Phone #	Phone F
Fax = 271-0974	FNX #

Sheet No.: CHROMIC ACID Liquid (35%)

Revision: 04/30/04T-217 IMDS ID No.: 756617

## **Technical Information**

# **CHROMIC ACID**

**Liquid (35%)** 

#### INTRODUCTION

CHROMIC ACID Liquid (35%) is a high-purity product well suited for use in chromium plating and anodizing applications. It can also be used in the manufacture of chromate conversion compounds for zinc and cadmium, bright dips for copper, brass, aluminum, and magnesium, for producing certain types of pigments, as an oxidant in organic syntheses in the pharmaceutical industry, and as a catalyst in certain petroleum refining processes.

#### **SPECIFICATIONS**

	<u>Specification</u>	Typical
Chromic Acid CrO <sub>3</sub> -	57.3 oz/gal (430 g/l) Min.	60 oz/gal (450 g/l)
Sulfate (SO <sub>4</sub> ) -		0.07%
Chloride (CI) -		0.002%
Insoluble Materials -		0.002%
Sodium (Na) -		0.023%

#### CHROMIC ACID Liquid (35%)

PAGE 2

#### PHYSICAL PROPERTIES

#### **Typical**

Color -

Dark orange to red solution

Stability in Air -

Stable

Specific Gravity -

1.30 at 60° F (16° C)

**Bulk Density -**

10.8 lbs/gal (1300 g/l)

#### SPECIAL INSTRUCTIONS

CHROMIC ACID Liquid (35%) is a strong oxidizing agent. It should be stored away from organic materials.

#### **PACKAGING**

CHROMIC ACID Liquid (35%) is packaged in 55 gallon steel drums.

#### **WASTE DISPOSAL**

This material must be disposed of in accordance with all applicable federal, state, and local regulations and permits. Consult the MSDS for additional regulatory information. The information contained herein is general in nature and may not apply to each application.

#### **GENERAL SAFETY PRECAUTIONS**

When working with this product(s), ensure that all health, environmental, and safety regulations and standards are met. Avoid direct contact with this material. Do not inhale associated mist, vapors, and/or dust. Maintain and limit exposure as recommended by OSHA, ACGIH, and other state and local regulations. Wash contaminated clothing before reuse. Always comply with the Hazard Communication Standard, 29 CFR 1910.1200. Emergency showers and eyewashes must be readily available.

It is recommended that the plating chemistry product(s) referred to in this Technical Information Sheet be used:
(a) in accordance with the information provided in product specific MSDS; and (b) in compliance with all applicable requirements and guidelines established by OSHA, NIOSH, ACGIH, NFPA, and others.

NOTE: A Material Safety Data Sheet (MSDS) for this product(s) is available upon request from Atotech USA Inc., Customer Service/Sales Support Group, 1750 Overview Drive, Rock Hill, SC 29730.

REVIEW MSDS BEFORE USING THIS PLATING CHEMISTRY AND FOR SPECIFIC INFORMATION. A precautionary approach should be used when there is potential for chemical exposure — this includes minimizing exposure potential, rapid decontamination, and medical follow-up.



Atotech USA Inc. Quality Control 1750 Overview drive Rock Hill, SC 29731-2000

QC Lab Tel: (803) 817-3575 - Fax: (803) 817-3606 Customer Service: (800) 752-8464 (US Customers Only)

Inspection Certificate

HARCROS CHEMICALS INC 4330 GERALDINE AVE SAINT LOUIS MO 63115

Date 06/03/2008 Article-No: **2200041-00**!

2200041-0055-4-000

Material:

LIQUID CHROMIC ACID (CH)

BATCH: Expiration Date : CH08E00643 05/27/2010 5002060087

Atotech Order No: Delivery No:

5006093728

Cust.Mat.No:

Cust.Order No:

020050339

This is to certify that the product identified has been tested under controlled laboratory conditions and found to meet our specifications and quality assurance standards.

Inspection Date: 05/27/2008

Characteristic	Lower Limit	Upper Limit	Value	Unit
Appearance Color Specific Gravity 20 deg C Content: Chromic acid	1.285 419.3	1.315 471.5	Clear liquid Red 1.310 458.0	G/ML

This is a controlled computer printout valid without a signature.

Quality Control Laboratory Laboratory Manager



HARCROS CHEMICALS INC

SAINT LOUIS MO 63115

4330 GERALDINE AVE

Atotech USA Inc. Quality Control 1750 Overview drive Rock Hill, SC 29731-2000

QC Lab Tel: (803) 817-3575 - Fax: (803) 817-3606 Customer Service: (800) 752-8464 (US Customers Only)

Inspection Certificate

05/23/2008

Article-No:

2200041-0055-4-000

Material:

Date

LIQUID CHROMIC ACID (CH)

Batch:

CH07L00597 12/18/2009

Expiration Date: Atotech Order No:

5002060087

Delivery No:

5006093116

Cust.Mat.No:

Cust.Order No:

020050339

This is to certify that the product identified has been tested under controlled laboratory conditions and found to meet our specifications and quality assurance standards.

Inspection Date: 12/19/2007

Characteristic	Lower Limit	Upper Limit	Value	Unit
Appearance			Clear liquid	
Color			Orange	
Specific Gravity 20 deg	C 1.285	1.315	1.305	G/ML
Content: Chromic acid	419.3	471.5	447.0	G/L

This is a controlled computer printout valid without a signature.

Quality Control Laboratory Laboratory Manager



HARCROS CHEMICALS INC

SAINT LOUIS MO 63115

4330 GERALDINE AVE

Atotech USA Inc. Quality Control 1750 Overview drive Rock Hill, SC 29731-2000

1237/

QC Lab Tel: (803) 817-3575 - Fax: (803) 817-3606 Customer Service: (800) 752-8464 (US Customers Only)

Inspection Certificate

Date

05/23/2008

Article-No:

2200041-0055-4-000

Material:

LIQUID CHROMIC ACID (CH)

Batch:

CH08C02842

Expiration Date :

03/19/2010

Atotech Order No: Delivery No: 5002060087 5006093116

Cust.Mat.No:

Cust.Order No:

020050339

This is to certify that the product identified has been tested under controlled laboratory conditions and found to meet our specifications and quality assurance standards.

Inspection Date: 03/19/2008

Characteristic	Lower Limit	Upper Limit	Value	Unit
Appearance			Clear liquid	
Color			Red	
Specific Gravity 20 deg C	1.285	1.315	1.310	G/ML
Content: Chromic acid	419.3	471.5	460.0	G/L

This is a controlled computer printout valid without a signature.

Quality Control Laboratory Laboratory Manager

## Attachment 4

## Scale and Balance Certifications

Location:

MFG / Model:



5404 Jedmed Ct. - St. Louis, MO 63129 Business: (314) 845-7778 - Fax: (314) 646-7779

#### Scale inspection Report



Customer: ONYX ENVIRONMENTAL (86)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Mettler / AG204

Description: Class [

Serial No: 1121191553 Scale No: N/A

Scale Type: Balance Capacity: 210 g

Divisions: ,0001 g

Used this scale to test customer's test weights

N/A

see attail.

hift Test Sides / Comers / ections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
	0.0300 g	0.0300 g	+0.0000 g	+/- 0.0001 g		ACCEPT
	0.1000 g	0.1000 g	+0.0000 g	+/- 0.0001 g		ACCEPT
	0.5000 g	0.5000 g	+0.0000 g	+/- 0.0001 g		ACCEPT
	1.0000 g	1.0000 g	+0.0000 9	+/= 0.0001 g		ACCEPT
	2.0000 g	2.0000 g	+0.0000 g	+/- 0.0001 q		ACCEPT
	3.0000 g	3.0000 g	+0.0000 g	+/- 0.0001 g		ACCEPT
	5.0000 g	5.0000 g	10.0000 g	+/- 0.0001 g		ACCEPT

Bulldup Waight	Weights Appiled	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
	10.0000 g	10.0000 g	+0.0000 g	+/- 0.0002 g		ACCEPT
	20.0000 a	20.0000 9	+0.0000 g	+/- 0.0002 g		ACCEPT
	30.0000 g	30.0000 g	+0.0000 g	+/- 0.0003 g		ACCEPT
	50.0000 g	50.0000 g	+0.0000 g	+/- 0.0003 g		ACCEPT
	100.0000 g	100.0000 g	+0.0000 g	+/- 0.0003 g		ACCEPT
		,				
			1			
					,	]
		İ	į.			

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rice Lake: 822/266926-02 822/272801-06 822/274081-06

Cal Date: 04/30/2008

Next Cal due: 04/30/2009

Calibration Dates: APR

Service Technician Registration #: 0524-M

Calibrated By Service Technician: Jim Koerkenmeier

Job Queue#: LT214946

Report ID: 68963270

Uncertainty of Measurement provided on request

FOR CUSTOMER USE ONLY apole ou **salamin an**e son 5 controllers.

Date Reviewed Reviewed By\_

8404 Jedmed CL - St. Louis, MO 63128 Business: (314) 846-7778 - Fax: (314) 846-7779



Location:

MFG / Model:

#### Scale Inspection Report



Customer: ONYX ENVIRONMENTAL (86)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class III

Serial No: na

Scale No: na

Lab Gram Set Scale Type: \_\_\_\_\_

Divisions: .0001 g

Used this scale to test customer's test weights

hift Test Sides / Cornen/ Sections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
V	/V	VV			VV	V
	$\backslash \Lambda$	$\mathcal{N}$			$\Lambda\Lambda$	<b>/</b>

Buildup Weight	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
	1.0000 g	0.9996 g	-0.0004 g	+/- 0.0004 g		ACCEPT
	2.0000 g	2.0000 9	+0.0000 g	+/- 0.0004 g		ACCEPT
	3.0000 g	2.9999 g	-0.0001 g	+/- 0.0004 g		ACCEPT
	5.0000 g	5.0000 g	+0.0000 g	+/- 0.0004 g		ACCEPT
	10.0000 a	10.0000 g	+0.0000 g	+/- 0.0004 g		ACCEPT
,	20.0000 g	20.0001 g	+0.0001 g	+/- 0.0004 g		ACCEPT
	30.0000 g	30.0000 g	+0.0000 y	+/~ 0.0004 g		ACCEPT
	50.0000 g	49.9997 g	-0.0003 g	+/- 0.0004 g		ACCEPT
	100.0000 a	100.0000 g	+0.0000 g	+/- 0.0004 g		ACCEPT

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rica Lake: 822/266926-02 822/272801-06 822/274081-08

Cal Date: 04/30/2008

Next Cal due: 04/30/2009

Calibration Dates: APR

Service Technician Registration #: 0524-M

Calibrated By Service Technician: Jim Koerkenmeier

Job Queue#: LT214946

Report ID: 68965239

Uncertainty of Measurement provided on request

FOR	CUST	OMER	USF	ONLY

<del>11000</del>	a Programment surface shows	cy concentrate literature	in the part of the second of the second seco	grand manager and schools seems	
Daviou	and Bu		Date Reviewed		



6404 Jedmed Ct - St. Louis, MO 63129 Business: (314) 845-7778 - Fax: (314) 845-7779

#### Scale Inspection Report



Customer: ONYX ENVIRONMENTAL (86)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class I

Serial No: H203447

Scale No: N/A

Location: MFG / Model: N/A

Mettler / PT3600

Scale Type: Capacity:

Balance

3.600 a

Divisions: 0.01 g

hift Test Sides / Comers / lections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
· ·//		VV	~~		VV	
X	ΚX	XX	X	XX	XX	Х

		l .	Maintenance	Adjustment	Reject
00 g	1.00 g	+0-00 g	+/- 0.01 g		ACCEPT
-	2.00 g	+0.00 g	+/- 0.01 g		ACCEPT
00 a	5.00 g	+0.00 g	+/- 0.01 g		ACCEPT
.00 g	10.00 g	+0.00 g	i/- 0.01 g		ACCEPT
.00 g	50.00 g	+0.00 g	+/-0.01 g		ACCEPT
0.00 q	100.00 g	+0.00 g	+/- 0.01 g		ACCEPT
•	500.00 g	+0.00.g	+/- 0.01 g		ACCEPT
00.00 a	1000.00 g	+0.00 g	+/- 0.02 g		ACCEPT
00.00 g	2000.00 g	+0.00 g	+/- 0.02 g		ACCEPT
	00.00 g 0.00 g 0.00 g .00 g .00 g	2.00 g 00 g 5.00 g .00 g 10.00 g 0.00 g 100.00 g 0.00 g 100.00 g 100.00 g	00 g 2.00 g +0.00 g 00 g 5.00 g +0.00 g .00 g 10.00 g +0.00 g .00 g 50.00 g +0.00 g 0.00 g 100.00 g +0.00 g 0.00 g 500.00 g +0.00 g 00.00 g 1000.00 g +0.00 g	00 g 2.00 g +0.00 g +/- 0.01 g 00 g 5.00 g +0.00 g +/- 0.01 g .00 g 10.00 g +0.00 g +/- 0.01 g .00 g 50.00 g +0.00 g +/- 0.01 g 0.00 g 100.00 g +0.00 g +/- 0.01 g 0.00 g 500.00 g +0.00 g +/- 0.01 g 00.00 g 1000.00 g +0.00 g +/- 0.02 g	2.00 g

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/263250 39598 OBS04-0268/03-0450 Rice Lake: 822/266926-02 822/272801-06 822/274081-06

Cal Date: 04/30/2008

Next Cal due: 04/30/2009

Calibration Dates: APR

Service Technician Registration #: 0524-M

Calibrated By Service Technician: Jim Koerkenmeier

Job Queus#: LT214946

Report iD: 68962684

Uncertainty of Measurement provided on request

FOR	CUSTO	<b>JER</b>	USE	ONLY
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eviewed By	Date Reviewed
------------	---------------

6404 Jedmed Ct. - St. Louis, MO 63128 Business: (314) 846-7778 - Fax: (314) 845-7779



#### Scale inspection Report

Customer: ONYX ENVIRONMENTAL (86)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class I

Serial No: 1119251180

Scale No: N/A Divisions: 0.01 a

Location: MFG / Model: N/A

Mettier/ PG802

Scale Type:

Balance

Capacity: 810 g

Shift Test Sides / Corners / Sections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
V	/\/	VV			VV	V
		$\mathcal{N}$		$\wedge \wedge$	$\Lambda\Lambda$	<b>/</b>

Buildup Welght	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
	0.50 g	0.50 g	+0.00 g	+/- 0.01 g		ACCEPT
	1.00 9	1.00 g	+0.00 g	+/- 0.01 g		ACCEPT
	2.00 g	2.00 g	+0.00 g	+/- 0.01 g		ACCEPT
	5.00 9	5.00 g	+0.00 g	+/- 0.01 g		ACCEPT
	100.00 9	100.00 g	+0.00 g	+/- 0.01 g		ACCEPT
	200.00 a	200.00 g	+0.00 q	+/- 0.01 g		ACCEPT
	500.00 g	500.00 g	+0.00 g	+/- 0.01 9		ACCEPT
	700.00	700.00 a	+0.00 g	+/- 0.02 g	=	ACCEPT

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rica Laka: 822/266926-02 822/272801-06 822/274081-06

Cal Date: 04/30/2008

Next Cal due: 04/30/2009

Calibration Dates: APR

Service Technician Registration #: 0524-M

Calibrated By Service Technician: Jim Koerkenmeier

Job Queue#: LT214946

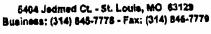
Report ID: 68962679

Uncertainty of Measurement provided on request

contain a constant or their

FOR	CUST	OMER	USE	ONLY	

Reviewed By	Date Reviewed
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#### Scale Inspection Report



Customer: ONYX ENVIRONMENTAL (86)

#7 MOBILE AVENUE SAUGET, IL 62201

Description: Class |

Serial No: 11925184

Location:

N/A

Scale Type:

Balance

Scale No: N/A

MFG / Model:

Mettler / PG 802

Capacity:

810 g

Divisions: 0.01 g

V	X	XX	X	XX	XX	Y
Shift Test Sides / Comers / Sections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject

Bulldup Weight	Weights Applied	Scale Reading	Епог (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
	0.50 g	0.50 g	+0.00 g	+/- 0.01 g	0.50 g	ACCEPT
	1.00 g	1.00 g	+0.00 g	+/- 0.01 g	1.00 g	ACCEPT
	2.00 g	2.00 g	+0.00 g	+/- 0.01 g	2.00 g	ACCEPT
	5.00 g	5.00 g	+0.00 g	+/- 0.01 g	5,00 g	ACCEPT
	100.00 g	100.00 g	+0.00 g	+/- 0.01 g	100.00 g	ACCEPT
	200.00 g	200.92 g	+0.92 g	+/- 0.01 g	200.00 g	ACCEPT
	500.00 q	499.94 9	-0.06 g	+/- 0.01 g	500.00 g	ACCEPT
	700.00 a	699.92 g	-0.08 a	+/- 0.02 g	700.00 a	ACCEPT

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rica Lake: 822/266928-02 822/272801-06 822/274081-06

Cal Date: 04/30/2008

Next Cal due: 04/30/2009

Calibration Dates: APR

Service Technician Registration #: 0524-M

Calibrated By Service Technician: Jim Koerkenmeier

Job Queue#: LT214946

Report ID: 68962680

Uncertainty of Measurement provided on request

FOR CUSTOMER USE ONLY

Reviewed By \_\_\_\_\_ Date Reviewed \_\_\_\_\_



5404 Jedmed Ct - St Louis, MO 63129 Business: (314) 645-7776 - Fax: (314) 646-7779

#### Scale inspection Report



Customer: ONYX ENVIRONMENTAL (86)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class !

Serial No: 1125572864 Scale No: N/A

Location: MFG / Model:

N/A

Mettler / XS 204

Scale Type: Capacity:

Balance

220 g

Divisions: .0001 a

Sides / Corners / ections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Adjustment	Reject
X	X	XX	X	XX	XX	X

Buildup Weight	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
	0.1000 g	0.1000 g	+0.0000 g	+/- 0.0001 g		ACCEPT
	0.2000 g	0.2000 g	+0.0000 g	+/- 0.0001 g		ACCEPT
	0.5000 g	0.5000 9	+0.0000 g	+/- 0.0001 g		ACCEPT
	1.0000 9	1.0000 9	+0.0000 g	+/- 0.0001 g		ACCEPT
	10.0000 0	10.0000 g	+0.0000 g	+/- 0.0002 g		ACCEPT
	50.0000 a	50.0000 g	+0.0000 g	+/- 0.0003 g	A Comment	ACCEPT
	100.0000 0	100.0001 g	+0.0001 g	+/- 0.0003 g		ACCEPT
	200.0000 4	200.0001 q	+0.0001 a	+/- 0.0003 9		ACCEPT

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rica I aka: 822/266926-02 822/272801-06 822/274081-06

Cal Date: 04/30/2008

Next Cal due: 04/30/2009

Calibration Dates: APR

Service Technician Registration #: 0524-M

Calibrated By Service Technician: Jim Koerkenmeier

Job Queue#: LT214946

Report ID: 68962682

Uncertainty of Measurement provided on request

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Date Reviewed Reviewed By\_



5404 Jedmed Ct. - St. Louis, MO 63129 Business: (314) 845-7778 - Fax: (314) 845-7779

#### **Scale Inspection Report**



Customer: ONYX ENVIRONMENTAL (88)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class III

Location:

Plant

Scale Type:

Serial No: 1386300044 Scale No: na

MFG / Model:

320 IS

Capacity: 200 lbs

Divisions: .1lbs

hift Test Sides / Corners / ections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
Corner 1	100.0 lb	100.0 lb	+0.0 lb	+/- 0.2 lb		ACCEPT
Corner 2	100.0 lb	100.0 lb	+0.0 lb	+/- 0.2 lb		ACCEPT
Corner 3	100.0 lb	100.0 lb	+0.0 lb	+/- 0.2 lb	7 P	ACCEPT
Corner 4	100.0 lb	100.0 lb	+0.0 lb	+/~ 0.2 lb	*3	ACCEPT
		•	9 B B			
		-	ı			
				= 1		
Bulldup Welght	Weights Applied	Scale Reading		Talamana	Scale Reading After	Accept /
39	Weights Applied	Scale Neading	Error (+/-)	Tolerance Maintenance	Adjustment	Reject
	50.0 lb	50.0 lb	+0.0 lb		_	
				Maintenance	_	Reject
	50.0 lb	50.0 lb	+0.0 lb	Maintenance +/- 0.1 lb	_	Reject
	50.0 lb 75.0 lb	50.0 lb 75.0 lb	+0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb	_	Reject ACCEPT ACCEPT ACCEPT
	50.0 lb 75.0 lb 100.0 lb	50.0 lb 75.0 lb 100.0 lb	+0.0 lb +0.0 lb +0.0 lb	Haintenance +/- 0.1 lb +/- 0.2 lb +/- 0.2 lb	_	ACCEPT ACCEPT ACCEPT ACCEPT
	50.0 lb 75.0 lb 100.0 lb 150.0 lb	50.0 lb 75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb +0.0 lb	### Maintenance  ### 0.1 lb  ### 0.2 lb  ### 0.2 lb  ### 0.2 lb	_	ACCEPT ACCEPT ACCEPT ACCEPT
	50.0 lb 75.0 lb 100.0 lb 150.0 lb	50.0 lb 75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb +0.0 lb	### Maintenance  ### 0.1 lb  ### 0.2 lb  ### 0.2 lb  ### 0.2 lb	_	Reject ACCEPT ACCEPT
	50.0 lb 75.0 lb 100.0 lb 150.0 lb	50.0 lb 75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb +0.0 lb	### Maintenance  ### 0.1 lb  ### 0.2 lb  ### 0.2 lb  ### 0.2 lb	_	ACCEPT ACCEPT ACCEPT ACCEPT
	50.0 lb 75.0 lb 100.0 lb 150.0 lb	50.0 lb 75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb +0.0 lb	### Maintenance  ### 0.1 lb  ### 0.2 lb  ### 0.2 lb  ### 0.2 lb	_	ACCEPT ACCEPT ACCEPT ACCEPT

Test Procedure follows QSP009-001/002

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450

Rice Lake: 822/266926-02 822/272801-06 822/274081-06

Serial No: 259883/253250

Cal Date: 07/23/2008

Next Cal due: 10/31/2008

Calibration Dates: JAN APR JUL OCT

Service Technician Registration #: 0152IL/226-M Calibrated By Service Technician: Alan Primo

Job Queue#: LT215497

**Environmental Conditions: Normal** 

Uncertainty of Measurement provided on request

Reviewed By Date Reviewed



5404 Jedmed Ct. - St. Louis, MO 63129 Business: (314) 845-7778 - Fax: (314) 845-7779

#### Scale Inspection Report



Customer: ONYX ENVIRONMENTAL (88)

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class III

Serial No:

1386300045

Scale No: na Divisions: .11bs

Location: MFG / Model: **Plant** 320 IS Scale Type: Bench

Capacity: 200 lbs

Corner 2   100.0 lb   100.0 lb   100.0 lb   +0.0 lb   +/- 0.2 lb   +/- 0.2 lb   ACC   AC	hift Test Sides / Corners / Sections	Weights Applied	Scale Reading	Ептог (+/-)	Tolerance Maintenance	Scale Reading After Adjustment	Accept / Reject
Corner 2   100.0 lb   100.0 lb   +0.0 lb   +/- 0.2 lb   +/ 0.2 lb   +/ 0.2 lb   +/ 0.2 lb   +/	Corner 1	100.0 lb	100.0 lb	+0.0 lb	+/- 0.2 lb		ACCEPT
Corrier 4   100.0 lb   100.0 lb   +0.0 lb   +/- 0.2 lb   ACC	Corner 2	100.0 lb	100.0 lb	+0.0 lb			ACCEPT
Weights Applied   Scale Reading   Error (+/-)   Tolerance   Scale Reading After   Access   Maintenance   Adjustment   Access   Adjustment   Access   Adjustment   Access   Adjustment   Access   Adjustment   Access   Adjustment   Access    Corner 3	100.0 lb	100.0 lb	+0.0 lb	+/- 0.2 lb		ACCEPT	
Maintenance   Adjustment   Reject	Corner 4	100.0 lb	100.0 lb	+0.0 lb	+/- 0.2 lb		ACCEPT
Maintenance   Adjustment   Reject					7117	· ·	
Maintenance   Adjustment   Reject	•						
Maintenance   Adjustment   Reject			,		0 2 ,=		1
Maintenance   Adjustment   Reject							П
Maintenance   Adjustment   Reject							
75.0 lb	uildup Weight	Weights Applied	Scale Reading	Error (+/-)	Tolerance	Scale Reading After	Accept /
75.0 lb					Maintenance		Reject
100.0 lb		50.0 lb	50.0 lb	+0.0 lb			
					+/- 0.1 lb		ACCEPT
200.0 lb 200.0 lb +0.0 lb +/- 0.2 lb Acc		75.0 lb	75.0 lb	+0.0 lb	+/- 0.1 lb +/- 0.2 lb		ACCEPT
		75.0 lb 100.0 lb	75.0 lb 100.0 lb	+0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb +/- 0.2 lb		ACCEPT ACCEPT
		75.0 lb 100.0 lb 150.0 lb	75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb +/- 0.2 lb +/- 0.2 lb		ACCEPT ACCEPT ACCEPT
		75.0 lb 100.0 lb 150.0 lb	75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb +/- 0.2 lb +/- 0.2 lb		ACCEPT ACCEPT ACCEPT
		75.0 lb 100.0 lb 150.0 lb	75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb +/- 0.2 lb +/- 0.2 lb		ACCEPT ACCEPT ACCEPT ACCEPT ACCEPT
		75.0 lb 100.0 lb 150.0 lb	75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb +/- 0.2 lb +/- 0.2 lb		ACCEPT ACCEPT ACCEPT
		75.0 lb 100.0 lb 150.0 lb	75.0 lb 100.0 lb 150.0 lb	+0.0 lb +0.0 lb +0.0 lb	+/- 0.1 lb +/- 0.2 lb +/- 0.2 lb +/- 0.2 lb		ACCEPT ACCEPT ACCEPT

Test Procedure follows QSP009-001/002 NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rice Lake: 822/266926-02 822/272801-06 822/274081-06

Cal Date: 07/23/2008

Next Cal due: 10/31/2008

Calibration Dates: JAN APR JUL OCT

Service Technician Registration #: 0152IL/226-M

Calibrated By Service Technician: Alan Primo

Job Queue#: LT215497

Report ID: 68964319

Environmental Conditions: Normal

Uncertainty of Measurement provided on request

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Reviewed By	·	 		Date Reviewed	 	· ·	



5404 Jedmed Ct. - St. Louis, MO 63129 Business: (314) 845-7778 - Fax: (314) 845-7779

#### **Scale Inspection Report**



Customer: Veolia

**#7 MOBILE AVENUE** SAUGET, IL 62201

Description: Class III

Serial No: 6074923-6ST

Location:

N/A

Scale Type:

Scale No: N/A

MFG / Model:

Toledo / 8141

2.000 lb

Divisions: 0.1 lb

Shift Test Sides / Corners / Sections	Weights Applied	Scale Reading	Error (+/-)	Tolerance Accept	Scale Reading After Adjustment	Accept / Reject
Corner 1	200.0 lb	199.0 lb	-1.0 lb	+/- 0.1 lb	200.0 lb	ACCEPT
Corner 2	200.0 lb	199.0 lb	-1.0 lb	+/- 0.1 lb	200.0 lb	ACCEPT
Corner 3	200.0 lb	199.0 lb	-1.0 lb	+/- 0.1 lb	200.0 lb	ACCEPT
Corner 4	200.0 lb	199.0 lb	-1.0 lb	+/- 0.1 lb	200.0 lb	ACCEPT
1,2						
		· .				
	7 7 7		1,100			
Buildup Weight	Weights Applied	Scale Reading	Error (+/-)	Tolerance Accept	Scale Reading After Adjustment	Accept / Reject
·	100.0 lb	99.0 lb	-1.0 lb	+/- 0.1 lb	100.0 lb	ACCEPT
	300.0 lb	299.0 lb	-1.0 lb	+/- 0.1 lb	300.0 lb	ACCEPT
						ACCEPT
	500.0 lb	498.0 lb	-2.0 lb	+/- 0.2 lb	500.0 lb	
	700.0 lb	498.0 lb 698.0 lb	-2.0 lb -2.0 lb	+/- 0.2 lb +/- 0.2 lb	700.0 lb	
				1		ACCEPT
	700.0 lb	698.0 lb	-2.0 lb	+/- 0.2 lb	700.0 lb	ACCEPT
	700.0 lb	698.0 lb	-2.0 lb	+/- 0.2 lb	700.0 lb	ACCEPT
	700.0 lb	698.0 lb	-2.0 lb	+/- 0.2 lb	700.0 lb	ACCEPT ACCEPT
	700.0 lb	698.0 lb	-2.0 lb	+/- 0.2 lb	700.0 lb	ACCEPT

NIST #: MO: 259883/253250 39598 OBS04-0268/03-0450 Rice Lake: 822/266926-02 822/272801-06 822/274081-06

Cal Date: 07/08/2008

Next Cal due: 90 days

**Calibration Dates:** 

Service Technician Registration #: 0152IL/226-M Calibrated By Service Technician: Alan Primo

Job Queue#: LT215654

Report ID: 68965374

Comments: Recalibrated **Environmental Conditions: Normal** 

Uncertainty of Measurement provided on request

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Reviewed By		Date Reviewed	 
	· ·		

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## Attachment 5

Sample Container Certificate of Analysis

## 36 East B.J. Tunnell Blvd.

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Miami OK. 74354

#### Certificate of Analysis

**QA LEVEL** LOT NO 027852 BOTTLE TYPE **GLASS** DESCRIPTION 131-08C; 250ml. Short Clear Wide Mouth Jar EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A, "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds. Glass and HDPE Sample containers for use in the analysis of Metals tooks Detection Limit (µg/L) Analyta Detection Limit Analyte Detection Limit ( µg/L) Analyta Detection Limit (µg/L) Analyta Detection Limit (ug /L) Caloium (all HDPE) <100 <100 ⊲ ⊲ ⊲5000 <5 <2 Chromi Cobalt <10 <10 <10 <0.2 Silver <10 <20 Sodium (all HDPE) <100 Copper <750 Theffirm ব <10 40.5 <50 (all HDPE) <900 <10 In addition to the above analytes, NALGENEO containers are certified for these analytes: Detection Limit (µg/L) Analyta Detection Limit (µg/L) Analyte <100 <10 Ø Ø <100 Sulfide Paraquet (amber only) Nitrate <1000 rust (amber only) <1.0 Sulfin Glass Sample Containers for use in the analysis of Semivolatiles and Pesticides/PCRs Ountitation Limit ( µg/L) Quantitation Limit (µg/L) ion Limit (ug/L) ⋖ Acenanhthyli Anthracene Beesto(a)anthraceo Beesto(k)Floorasth Beaco(b)di Велао(в)ругово Benzo(g.h,i)peryle ଟିଟଟଟଟଟଟଟଟଟଟଟଟଟଟଟଟଟ**ଚ** Benenic Acid 00000 bis-(2-Chlorooth 2-Chloronap Chrysene Dibenzo(a,h)a 1,4-Dicklorob Di-a-buty**iphthalas** ଷ ଦ ଦ ଦ ଦ ଦ ଦ ହ ବ ଦ ଦ ଦ ବ ବ 3.3'-Dichlorobe Dimethylphthala 2,4-Dimitrophene 2,4-Dimirrophenol bin-(2-Ethylhenyf)phth Indeno(1,2,3-cd)ov 1,2,4-Trichle 2.4.5-Trichlorophenol 2.4.6-Trichlomol Alpha-BHC Beta-BHC Delta-BHC Endoculfes II 4.4-DDD <0.01 4,4-DDB 4,4-DDT Ø.02 Ø.03 <0.01 <0.01 Endria Endria Aldebyde Gamme-BHC Hoptachior Ep Alpha-Chiorda Ø.01 Ø.01 <0.02 <0.01 Heptachior Endrin Ketone <0 to <0 01 Chlon Toxophece Arcelor-1232 Arocior-1016 <0.20 Aroclor-1221 <0.20 <0.20 <0.20 <0.20 Arodor-1242 <0.20 Arocior-1262 <0.20 Aracion-1268 < 0.20 Glass Sample Containers for use in the analysis of Valattles Compound Quantitation Limit (µg/L) Compound Quantitation Limit (µg/L) Compound Ouantitation Limit ( µg/L) 1,2-Dichloropropens 2.2-Dichlorogropen trans-1,3-Dichlo ~~~**~**~~~~~~~~~~ 1.1-Dichloropro cis. I.3-Diahlarano t-Butylb 000000000000000 2-Henry Hexachlorobutad sec-ButyBons Isopropyibenzene Carbon Tetrachic Carbon Dissilfula Chloroethe Chioroform 1.1.2.2-Tetras Styrene 1,2-Dibromo-3-chloropropene 2 & 4 Chlorotolos 1,2,3-Trichlo 1,2-Dibromoethane (EDB) 1,2,4-Trichlorobe 1,3-Dichlorobenz ,i,l-Trickloro 1,2,3-Trioblorope I.1.2-Trichloroed Trichloroethe trams-1,2-Dich Xylones (total) Vinyt Chloride u (total) 1.3.5-Trimethylbu 1.2.4-Trimothylbenze

In addition to the above analytes, 40 mL and 60 mL visis are certified for: Compound Quantitation Limit ( µg/L)

**Total Organic Carbon** 

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department. Approved By: James L. Riner - Quality Assurance

James L. Riner

#### 36 East B.J. Tunnell Blvd.

Where cleen is critical

 Miami	OK.	743	54	

## Certificate of Analysis

LOT NO BOTTLE TYPE GLASS QA LEVEL \_\_\_1\_\_\_ 027852

DESCRIPTION 131-08C; 250ml. Short Clear Wide Mouth Jar

EP Scientific Products Level 1 products have been tested and found to comply with or to be lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A, "Specifications And Guidance For Contaminant-Free Sample Containers 12/92". EP Scientific Products pass/fail criteria considers all significant non-target compounds.

		Glass and	HDPE Sample containers	for use in the analys			
Analyte	Detection Limit ( µg/L)	Analyte	Detection Limit ( µg/L)		Detection Limit ( µg/L)	Analyte	Detection Limit (ug /L)
Abernistum	<80	Calcium (all H	OPE) <100	Magnezium	<100	Selenium	⊲
Antimony	લ	Chromium	<10	Manganese	<10	Selver	ব
Amenic	à	Cohelt	<10	Mercury	40.2	Sodiom	<5000
Barium	∞ 30	Copper	<10	Nickel	<20	Sodium (all HDPE	
Beryllium	⊲0,5	Iron	<50	Potencium	<750	Thellium	<5
Cadmium	<1	Leed	< 2	Potessium (all HDPE)	<100	Vanadium	<10
Calcium	<500		~		~100	Zinc.	<10
		tion to the abo	ve analytes, NALGENEC	containers are certi	fied for these analytes		<b>~10</b>
Analyte	Detection Limit (µg/L)		Detection Limit ( µg/L		Detection Limit ( µg/L)	Analyte	Detection Limit ( µg/L)
Chloride	<100	Flooride	<20	Nitrite	<50	Sulfate	<100
Cyanide	<10	Nitrate	<20	Personat (amber only)	⊲0.4	Sulfide	<30
Diquet (amber only)	<1.0		_		<b>~</b>	Sulfite	<1000
• • •	Glass	Sample Cont	niners for use in the anal	vais of Semivolatiles	and Pesticides/PCBs		
Compound	Quantitation Liv			Ouantitation Limit ( µg/L		Oceantitud	on Limit (µg/L)
Aconsolidano		<5	Accombitiviese	<2	Anthrocene	China	(5 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
Benzo(a)enthracene		લેં	Benzo(a)pyrone	7	Benzo(b)duorani	L	ও ও
Benzo(k)Fluorenthene		ব				00.00	
Benzyl Ajcobol		ર	Benzo(g,h,i)perylene 4-Bromophenyl-phonylether	<b>ব</b>	Benzoic Acid	lata.	<20
4-Chiorogniline		ব	4-Oromopnenyi-passylemer 4-Chloro-3-methylphenol		Butyfhensylphths		ব
bis-(2-Chlorosthyl)ether				ব	bis-(2-	_	ব
2-Chiorophenol		<b>ব</b>	bis-(2-Chloroisopropyl)sther	ব	Chiorouthoxy)me		ব
			4-Chlorophenyl-phanylether	ব	2-Chloronaphtha	icase	ব
Di-n-butylphthalate		ব	Di-n-octylphthalata	ব	Chrysons		ব
Dibenzaferen 1,3-Dichiorobenzene		ব	1,2-Dioblorobecome	ব	Dibeaso(a,h)amh	FROME	ব
		ব ব	3,3'-Dichlorobenzidine	ব	1,4-Dichlorobenz		ব
Dicthylphthalate			Dimethylphthelate	ব	2,4-Dioblorophee		ব
4,6-Dinitro-2-methylphenol		<20	2,4-Dinitrophenal	<20	2,4-Disztrotoluen	•	ব
2,6-Distrotoluene		ব	bis-(2-Bihylbexyl)phthalats	ব	Phorandene		ব
Fluorese		ব	Hexachlorobenzene	ব	Hexachlorobutad	ime	ব
Hexachlorocyclopentacione		<5	Hexachiorosthans	ব	Indeno(1,2,3-ed);	yyrome	ব
laophorose		ব	2-Mothylnaphthalone	ব	2-Methylphenol		<5
4-Methylphanol		<5	2-Nitrosniline	<20	3-Nitrossiline		<20
4-Nitronniline		<20	N-Nitroso-di-p-propylamina	<5	N-Nitrosodimeth	/Lumine	⋖5
N-Nitrosodiphenylamine		ব	Naphthiene	. ব	Nitrobenzene		4
2-Netrophenol		ব	4-Nitrophenol	<20	Pentachioropheno	4	<20
Phononthrone		ব	Phonoi	ব	Pyrene		ব
1,2,4-Trichlorobenzene		<⁵	2,4.5-Tricklorophesol	<20	2,4,6-Trickloroph	enci	લ
Azobenzene		⋖	Carbezole	હ	Aldrin		⊲0.01
4.4-DDD		0.02	Endosulfan II	⊲0.02	Ainha-BHC		<b>₹0.01</b>
4.4-DDB		0.02	Endorelfan Sulfate	⊲0.02	Beta-BHC		<0.01
4,4-DDT		0.02	Endris	⊲0.02	Delta-BHC	*	<0.01
Dieldrin		0.02	Endris Aldebyde	<0.02	Garness-BHC		<0.01
Endosulfas I		0.01	Heotachlor	40.0⊳	Heptachlor Book	de	<b>₹0.01</b>
Methoxychior		0.10	Endrin Ketone	⊲0.02	Alpha-Chlordene	-	<b>40.01</b> <b>40.01</b>
Garana-Chlordage		0.01	Toxanhene	<0.30	Aroclor-1016		<0.01 <0.20
Aroclor-1221		0.20	Arocior-1232	<0.20	Arodor-1010		<0.20 <0.20
Arocior-1248		0.20	Aroclor-1254	⊲0.20	Arocior-1242 Arocior-1260		<0.20 <0.20
Aroclar-1262		0.20	Arocior-1268	<0.20 <0.20	VP-00004-1700		~0.20
		Class i	Sample Containers for us		معاناهم		
Connound	Quantitation I	Limit (ue/L)		Ouantitation Limit (μ		Chamita	ion Limit (μg/L)
Acetone		ব ব	1,3-Dichloropropens	<u> </u>	Benzane	Z (manufile	- (1 (μ <b>g</b> /L)
2,2-Dichloropropene		<1 €	Bromobenzene	₹	1,2-Dichloroprop		্ব ব
Bromodickloromethene		^; <1	trans-1,3-Dichloropropone	<1 <1	1,2-Demoropropi Bromoform		
cis-1,3-Diobloropropose		<i< td=""><td>Bromomethane</td><td>&lt;1</td><td></td><td></td><td>&lt;1</td></i<>	Bromomethane	<1			<1
2-Butanone		ব	Ethylbenzene	<1	1,1-Dichloroprope		<1
Hexachlorobutadiene		<b>0</b>			tert-Butylbeszene		<1
national desiration of the control o		<1 <1	sec-Butylbenzone	4	2-Hexanone		⋖!
p-Isopropyltolume		<1	Isopropyibenzene	<1	Carbon Disulfida		<1
p-teopropysoname Chloromethane			Carbon Tetrachloride	<1	4-Mothyl-2-penta	0000	ব
		<1	Methylene Chlorida	Q	Chlorostians		<1.
1,1,2,2-Tetrachloroethans Dibromochloromethans		< <u>1</u>	Chloroform	4	a-Propythenzeus	•	<1
		<b>⊲</b>	Styrene	₫	2 & 4 Chlorotohu		<1
1,2,3-Trichloropropene		<1	1,2-Dibromo-3-	4	Totrachicrosthene		<1
1,4-Dicklorobonzene		1	chloropropene	∢	I,2-Dibromoether		<1
1,1,1-Trichlorosthens		4	Toluene	<1	1,2,4-Trichlorobe		<1 ■
Dichlorodiffuoromethane		<1	Dibromomethane	<1	1,3-Dioblorobenza	180	<1
2,3-Trichloropropens		⊲.	1,1,2-Trichloroethese	<1 .	Trichloroethene		∢
rans-1,2-Dichlorosthens		ব	1,2-Dichlorobenzone	<1	1,2-Dichloroethen		∢
/inyl Acetate		ব	Trichlorofluoromethese	<1	Bromochiorometh		ત્રં
Cylenes (total)		<1	1,1-Dichloroethese	<1			-
Vinyl Chloride	<	<1	1,3,5-Trimethylbenzene	<1 ■			
			1,1-Dichlorosthene	∢1			
			1,2,4-Trimethylbenzene	તં			
			cis-1 2-Dichlomethene	••			

In addition to the above analytes, 40 mL and 60 mL vials are certified for: Compound Obsertitation Limit (  $\mu g/L$ )

**Total Organic Carbon** 

If EP Scientific Products can be of any further assistance, please call 800-331-7425 and ask for our Technical Service Department. Approved By: James L. Riner - Quality Assurance

James L. Riner

## Attachment 6

Chain-of-Custody Record

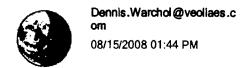


# Attachment 7 Historical Metals Feed Rates

1 Year Metals Data											
	06/01/0	06/01/07 thru 05/31/08	88		06/01/02	06/01/07 thru 05/31/08	90		0/10/90	06/01/07 thru 05/31/08	1/08
LVM	Unit 2	Unit 3	Unit 4	SVM	Unit 2	Unit 3	Unit 4	Hg	Unit 2	Unit 3	Unit 4
	(lbs/hr)	(ibs/hr)	(ibs/hr)		(ibs/hr)	(lbs/hr)	(ibs/hr)		(lbs/hr)	(lbs/hr)	(lbs/hr)
12 Hr Max Value	77.74	38.88	77.29	12 Hr Max Value	90.73	81.59	58.38	12 Hr Max Value	0.005396	0.00416	0.05373
12 Hr Avg Value	1.88	1.18	3.03	12 Hr Avg Value	1.75	1.98	3.81	12 Hr Avg Value		0.0002972 0.000243	0.007232
Std Dev	9.00	3.69	5.55	Std Dev	5.71	6.80	6.09	Std Dev	0.0007109	0.0007109 0.000568	0.008943
Avg + I StdDev	7.88	4.87	8.58	Avg + I StdDev	7.46	8.78	06.6	Avg + I StdDev	0.001008	0.001008 0.000812	0.016175
Avg + 2 StdDev	13.88	8.56	14.13	Avg + 2 StdDev	13.17	15.58	15.99	Avg + 2 StdDev	0.001719	0.00138	0.025118

## Attachment 8

Electronic Message with Waste Analytical Corrections



To Todd Ramaly/R5/USEPA/US@EPA

CC

bcc

#### Subject Re: Waste Stream Information

Todd,

We have talked to US Army and they are sending over the analysis results for that load that we fed during the testing on Units 2 and 3. I will fax over as soon as I receive.

The tank 2 laboratory analysis sheet that we gave you had the same formatting error that the Zexel did. The actual laboratory results are correct but when we electronically transferred to the analysis report sheet the Hg and Pb values were inserted in the wrong column. The Hg concentration for Tank 2 was 0.02 ppm and the Pb concentration is 65 ppm.

Please call if you have any additional questions.

Dennis J. Warchol
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